

#### **Polyethylene - Blow molding**

Grades are listed in order of resin type, then increasing melt index

Trade name	Grade name	Resin type	Melt index (2.16 kg, 190°C) (g/10min)	Density (g/cc)	Typical customer application
Petrothene	LP510034	HDPE	11.5 (HLMI)	0.95	Jerry Cans
Petrothene	NA940000	LDPE	0.25	0.918	Squeeze bottles, toys
Petrothene	NA951000	LDPE	2.2	0.92	Flexible bottles

#### **Polyethylene - Extrusion coating**

Grades are listed in order of resin type, then increasing melt index

Trade name	Grade name	Resin type	Melt index (2.16 kg, 190°C) (g/10min)	Base resin density (g/cc)	Typical customer application
Alathon	H6018	HDPE	18	0.960	Dry blend with LDPE
Petrothene	NA216000	LDPE	3.7	0.923	Flexible packaging, milk cartons and food boards
Petrothene	NA217000	LDPE	5.6	0.923	Flexible packaging, paperboard and industrial papers
Petrothene	NA204000	LDPE	7.0	0.918	General purpose flexible packaging and laminating
Petrothene	NA214000	LDPE	10	0.918	General purpose flexible packaging and laminating
Petrothene	NA219000	LDPE	10	0.923	Flexible packaging, milk cartons and food boards
Petrothene	NA206000	LDPE	13.5	0.918	Flexible packaging, sugar pouches, industrial and multi-wall bags
Petrothene	NA205000	LDPE	16	0.918	Flexible packaging, sugar pouches, industrial and multi-wall bags
Petrothene	GA616050	LLDPE	6.2	0.918	Dry blend with LDPE

### **Polyethylene - Film**

Grades are listed in order of fabrication process, resin type, then increasing melt index

				Melt index				
Fabrication process	Trade name	Grade name	Resin type	(2.16 kg, 190°C) (g/10min)	Base resin density (g/cc)	Slip (ppm)	Antiblock (ppm)	Typical customer application
Blown Film	Petrothene	LP540200	HDPE	0.17	0.940	-	-	GP MMW Film
Blown Film	Petrothene	LP510300	HDPE	0.33	0.949	-	-	GP MMW Film
Blown Film	Alathon	L5045	HDPE	0.45	0.950	-	-	GP MMW Film
Blown Film	Alathon	L5645	HDPE	0.54	0.959			GP MMW Film
Blown Film	Petrothene	GA2508	LLDPE	0.80	0.925	-	-	Heavy Duty Shipping Sacks
Blown Film	Petrothene	GA1810	LLDPE	1.0	0.918	-	-	General Purpose Blown Film
Blown Film	Petrothene	GA1810T	LLDPE	1.0	0.918	1000	6750	General Purpose Blown Film
Blown Film	Petrothene	GA1820	LLDPE	2.0	0.918	-	-	Blown Film and Cast Film
Cast Film	Alathon	H6018	HDPE	18	0.960	-	-	Cast Film

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#### **Product selection guide - North America**

### Infrastructure and building construction



### **Polyethylene - Film**

Grades are listed in order of fabrication process, resin type, then increasing melt index

Fabrication process	Trade name	Grade name	Resin type	Melt index (2.16 kg, 190°C) (g/10min)	Base resin density (g/cc)	Slip (ppm)	Antiblock (ppm)	Typical customer application
Cast Film	Petrothene	GA502024	LLDPE	2.0	0.918	-	-	Blown or Cast Film with Robust AO Package
Cast Film	Petrothene	GA1832	LLDPE	3.2	0.918	-	-	Cast Stretch Film
Film Extrusion	Petrothene	NA942094	LDPE	0.18	0.918	550	4000	Heavy Duty Packaging / Shrink
Film Extrusion	Lupolen	2221D	LDPE	0.25	0.922	-	-	Heavy Duty Packaging / Shrink
Film Extrusion	Petrothene	NA303013	LDPE	0.25	0.922	-	-	Heavy Duty Packaging / Shrink
Film Extrusion	Petrothene	NA303212	LDPE	0.25	0.922	-	2000	Heavy Duty Packaging / Shrink
Film Extrusion	Petrothene	NA940000	LDPE	0.25	0.918	-	-	Heavy Duty Packaging / Shrink
Film Extrusion	Petrothene	NA940085	LDPE	0.25	0.918	-	4000	Heavy Duty Packaging / Shrink
Film Extrusion	Petrothene	NA940094	LDPE	0.25	0.918	500	4000	Heavy Duty Packaging / Shrink
Film Extrusion	Petrothene	L3035	LDPE	0.40	0.929	-	-	Clarity Shrink
Film Extrusion	Petrothene	NA952000	LDPE	2.0	0.919			Liners
Film Extrusion	Petrothene	NA952094	LDPE	2.0	0.919	500	4000	Liners
Film Extrusion	Petrothene	NA951000	LDPE	2.2	0.920	-	-	Liners
Film Extrusion	Petrothene Select	GS906071	LLDPE	0.60	0.916	-	6500	Blown Film
Film Extrusion	Petrothene Select	GS906072	LLDPE	0.60	0.916	1350	6500	Blown Film
Film Extrusion	Petrothene	GA501020	LLDPE	1.0	0.918	-	-	General Purpose Blown Film
Film Extrusion	Petrothene	GA501021	LLDPE	1.0	0.918	-	7000	General Purpose Blown Film
Film Extrusion	Petrothene	GA501022	LLDPE	1.0	0.918	1350	7000	General Purpose Blown Film
Film Extrusion	Petrothene	GA501023	LLDPE	1.0	0.918	900	5500	General Purpose Blown Film
Film Extrusion	Petrothene	GA501029	LLDPE	1.0	0.918	1350	7000	General Purpose Blown Film
Film Extrusion	Petrothene	GA601030	LLDPE	1.0	0.918	-	-	General Purpose Blown Film
Film Extrusion	Petrothene	GA601031	LLDPE	1.0	0.918	-	6500	General Purpose Blown Film
Film Extrusion	Petrothene	GA601032	LLDPE	1.0	0.918	1350	6500	General Purpose Blown Film
Film Extrusion	Petrothene	GA502022	LLDPE	2.0	0.918	1350	7000	Blown or Cast Film
Film Extrusion	Petrothene	GA623119	LLDPE	2.0	0.923	-	-	High Stiffness Blown or Cast Film,
Film Extrusion	Petrothene	GA503028	LLDPE	3.5	0.925	800	1300	Blown or Cast Film, Zipper Packaging

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### **Polyethylene - Film EVA**

Grades are listed in order of increasing %VA

Fabrication process	Trade name	Grade name	Resin type	Melt index (2.16 kg, 190°C) (g/10min)	% VA	Slip (ppm)	Antiblock (ppm)	Typical customer application
Film Extrusion	Ultrathene	UE672102	EVA	0.45	13.5	2100	6300	Flexible packaging films for food and healthcare, liquid and heavy duty packaging and pallet stretch film
Film Extrusion	Ultrathene	UE672317	EVA	0.45	13.5	-	15000	Flexible packaging films for food and healthcare, liquid and heavy duty packaging and pallet stretch film
Film Extrusion	Ultrathene	UE672006	EVA	0.50	13.5	-	-	Flexible packaging films for food and healthcare, liquid and heavy duty packaging and pallet stretch film

### **Polyethylene - Injection molding**

Grades are listed in order of resin type, then increasing melt index

Trade name	Grade name	Resin type	Melt index (2.16 kg, 190°C) (g/10min)	Base resin density (g/cc)	Typical customer application
Alathon	M6028	HDPE	2.8	0.958	Specialty
Alathon	M5350	HDPE	4.5	0.953	Pails/Gen. Purpose
Alathon	M5370	HDPE	6.9	0.953	Pails/Gen. Purpose
Alathon	M6580	HDPE	8.2	0.965	Case, Crates & Pallets
Alathon	H5112	HDPE	12	0.951	Housewares, Caps & Closures
Petrothene	NA270001	LDPE	70	0.920	High flow specialty applications
Petrothene	GA564189	LLDPE	20	0.924	Housewares, compounding

### **Polyethylene - Pipe**

Grades are listed in order of increasing melt index

AlathonL5040TCHDPE0.290.949ConduitAlathonL4930TCHDPE0.300.949ConduitHyperzoneHY44930HDPE0.300.949ConduitAlathonL5332CPHDPE0.320.953Corrugated PipePetrotheneLT493501HDPE0.340.948ConduitAlathonM5370PXHDPE6.80.953PEX PipeLupolen5261Z Q 456HDPE2.0 (HLMI)0.955PEX Pipe (powder)Lupolen5261Z Q 456BHDPE3.0 (HLMI)0.949Pressure PipeAlathonL4904LSHDPE7.0 (HLMI)0.949Pressure PipeAlathonL4904LSHDPE7.0 (HLMI)0.949Pressure PipeAlathonL4904LSCHDPE7.0 (HLMI)0.949Pressure PipeHyperzoneHY4008HDPE7.5 (HLMI)0.949Pressure PipeHyperzoneHY4008LSCHDPE7.5 (HLMI)0.949Pressure Pipe	Tooda assus	Cardonamo	Desistant	Melt index		Turied contained condition
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HyperzoneHY44930HDPE0.300.949ConduitAlathonL5332CPHDPE0.320.953Corrugated PipePetrotheneL1493501HDPE0.340.948ConduitAlathonM5370PXHDPE6.80.953PEX PipeLupolen5261 Z 0 456HDPE2.0 (HLM)0.955PEX Pipe (powder)Lupolen5261 Z 0 4568HDPE3.0 (HLM)0.955PEX Pipe (powder)AlathonL4904HDPE7.0 (HLM)0.949Pressure Pipe -*Export only*AlathonL4904LSCHDPE7.0 (HLM)0.949Pressure PipeHyperzoneHY4008HDPE7.5 (HLM)0.949Pressure PipeHyperzoneHY408HDPE7.5 (HLM)0.949Pressure PipeHyperzoneHY408LSCHDPE7.5 (HLM)0.949Pressure Pipe	Alathon	L5040TC	HDPE	0.29	0.949	Conduit
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Lupolen     5261 Z Q 456B     HDPE     3.0 (HLM)     0.955     PEX Pipe (powder)       Alathon     L4904     HDPE     7.0 (HLM)     0.949     Pressure Pipe       Alathon     L4904LS     HDPE     7.0 (HLM)     0.949     Pressure Pipe - *Export only*       Alathon     L4904LSC     HDPE     7.0 (HLM)     0.949     Pressure Pipe - *Export only*       Alathon     L4904LSC     HDPE     7.0 (HLM)     0.949     Pressure Pipe       Hyperzone     HY4008     HDPE     7.5 (HLM)     0.949     Pressure Pipe       Hyperzone     HY4008LSC     HDPE     7.5 (HLM)     0.949     Pressure Pipe	Alathon	M5370PX	HDPE	6.8	0.953	PEX Pipe
Alathon     L4904     HDPE     7.0 (HLM)     0.949     Pressure Pipe       Alathon     L4904LS     HDPE     7.0 (HLM)     0.949     Pressure Pipe - *Export only*       Alathon     L4904LS     HDPE     7.0 (HLM)     0.949     Pressure Pipe - *Export only*       Alathon     L4904LSC     HDPE     7.0 (HLM)     0.949     Pressure Pipe       Hyperzone     HY4008     HDPE     7.5 (HLM)     0.949     Pressure Pipe       Hyperzone     HY4008LSC     HDPE     7.5 (HLM)     0.949     Pressure Pipe	Lupolen	5261 Z Q 456	HDPE	2.0 (HLMI)	0.954	PEX Pipe (powder)
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HyperzoneHY4008HDPE7.5 (HLMI)0.949Pressure PipeHyperzoneHY4008LSCHDPE7.5 (HLMI)0.949Pressure Pipe	Alathon	L4904LS	HDPE	7.0 (HLMI)	0.949	Pressure Pipe - *Export only*
Hyperzone HY4008LSC HDPE 7.5 (HLMI) 0.949 Pressure Pipe	Alathon	L4904LSC	HDPE	7.0 (HLMI)	0.949	Pressure Pipe
	Hyperzone	HY4008	HDPE	7.5 (HLMI)	0.949	Pressure Pipe
Lunglen 5/61 B O /71NA HDPF 10 (HI MI) 0.95/ PEV Ping (nowder)	Hyperzone	HY4008LSC	HDPE	7.5 (HLMI)	0.949	Pressure Pipe
	Lupolen	5461 B Q 471NA	HDPE	10 (HLMI)	0.954	PEX Pipe (powder)

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#### **Polyethylene - Rotomolding**

Grades are listed in order of resin type, then increasing melt index

Trade name	Grade name	Resin type	Melt index (2.16 kg, 190°C) (g/10min)	Base resin density (g/cc)	Typical customer application	Key properties
Microthene	MP652962	HDPE	2.0	0.942	Large Tanks	Powder version of base resin: GA652962, UVI (UV12)
Microthene	MP652060	HDPE	2.0	0.942	Large Tanks	Powder version of base resin: GA652060, UVI (UV20)
Petrothene	GA652962	HDPE	2.0	0.942	Large Tanks	UVI (UV12)
Petrothene	GA652060	HDPE	2.0	0.942	Large Tanks	UVI (UV20)
Microthene	MP643962	LLDPE	3.6	0.9395	Playground Equipment, Drums, Storage Containers, Trash Bins	Powder version of base resin: GA643962, UVI (UV12)
Microthene	MP643060	LLDPE	3.6	0.9395	Playground Equipment, Drums, Storage Containers, Trash Bins	Powder version of base resin: GA643060, UVI (UV20)
Petrothene	GA643962	LLDPE	3.6	0.9395	Playground Equipment, Drums, Storage Containers, Trash Bins	UVI (UV12)
Petrothene	GA643060	LLDPE	3.6	0.9395	Playground Equipment, Drums, Storage Containers, Trash Bins	UVI (UV20)
Microthene	MP625962	LLDPE	5.0	0.935	Toys, Playground Equipment, Drums, Storage Containers	Powder version of base resin: GA625962, UVI (UV12)
Microthene	MP625060	LLDPE	5.0	0.935	Toys, Playground Equipment, Drums, Storage Containers	Powder version of base resin: GA625060, UVI (UV20)
Petrothene	GA625962	LLDPE	5.0	0.935	Toys, Playground Equipment, Drums, Storage Containers	UVI (UV12)
Petrothene	GA625060	LLDPE	5.0	0.935	Toys, Playground Equipment, Drums, Storage Containers	UVI (UV20)
Microthene	MP635962	LLDPE	6.7	0.935	Toys, Playground Equipment, Drums, Storage Containers	Powder version of base resin: GA635962, UVI (UV8)
Microthene	MP635060	LLDPE	6.7	0.935	Toys, Playground Equipment, Drums, Storage Containers	Powder version of base resin: GA635060, UVI (UV20)
Petrothene	GA635962	LLDPE	6.7	0.935	Toys, Playground Equipment, Drums, Storage Containers	UVI (UV8)
Petrothene	GA635060	LLDPE	6.7	0.935	Toys, Playground Equipment, Drums, Storage Containers	UVI (UV20)

#### Polyethylene - Sheet and profile extrusion

Grades are listed in order of resin type, then increasing melt index

Trade name	Grade name	Resin type	Melt index (2.16 kg, 190°C) (g/10min)	Base resin density (g/cc)	Typical customer application
Petrothene	LT606932	HDPE	0.7	0.960	Sheet, profile extrusion
Petrothene	GA501020	LLDPE	1.0	0.918	Sheet and Tubing (Small Profile)
Petrothene	GA601030	LLDPE	1.0	0.918	Sheet and Tubing (Small Profile)
Petrothene	GA502024	LLDPE	2.0	0.918	Sheet and Tubing (Small Profile)

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#### **Polyethylene - Plexar**

Grades are listed in order of grade name

Fabrication Process	Trade name	Grade name	Resin Type	Melt Index (2.16 kg, 190°C) (g/10min)	Product Density (g/cc)	Typical Customer Application
Blown Film	Plexar	PX2250	HDPE+MAH	6.0	0.943	Extrudable Tie-Layer Resins for Metal
Cast Film	Plexar	PX2413	LLDPE+MAH	5.5	0.920	Extrudable Tie-Layer Resins for Metal
Pipe	Plexar	PX3060P	LLDPE+MAH	2.2	0.924	Multi Layer Pipe Tie-Layer Resin
Pipe	Plexar	PX3216	LLDPE+MAH	2.2	0.910	Multi Layer Pipe Tie-Layer Resin
Cast Film	Plexar	PX3418	LLDPE+MAH	2.5	0.916	Multi Layer Pipe Tie-Layer Resin

#### Wire and cable

Within each section, grades are listed in order of increasing melt index

Trade name	Grade name	Melt Index (g/10min)	Product Density (g/cc)	Typical Customer Application
Low Density Polyethyle				
Petrothene	NA940000	0.25	0.918	Natural insulation and jacket base resin
Petrothene	NA951080	2.2	0.920	Solid and foamed insulation; base resin in direct peroxide injection applications
Petrothene	NA217080	5.6	0.923	Gas injection blending component used in RF Coax insulation
Petrothene	NA202000	22	0.915	Cable component and accessories
Petrothene	NA270001	70	0.915	Cable component and accessories
Linear Low and Medium	Density Polyethylene			
Petrothene	PR92735	0.72	0.930	LLDPE black jacket
Petrothene	GA808091	0.75	0.920	LLDPE natural insulation or jacket base resin
Petrothene	GA808093	0.75	0.920	LLDPE natural insulation or jacket base resin with metal deactivator
Petrothene	GA837091	0.75	0.935	MDPE natural insulation or jacket base resin
Petrothene	HR92953	0.75	0.945	MDPE black jacket
Petrothene	GA616050	6.2	0.918	LLDPE natural base resin
Petrothene	GA564189	20	0.924	LLDPE natural base resin
Ethylene Vinyl Acetate				
Petrothene	NA362005	0.5	6.6% VA	Natural insulation and jacket base resin
Ultrathene	UE672006	0.5	13.5% VA	Natural insulation and jacket base resin
Petrothene	YR92126	7.7	1.13	Black thermoplastic semiconductive shield and jacket compound

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#### **Product selection guide - North America**

# Infrastructure and building construction



### Wire and cable

Within each section, grades are listed in order of increasing melt index

Trade name	Grade name	Melt Index (g/10min)	Product Density (g/cc)	Typical Customer Application
High Density Polyethylen	9			
Alathon	9305TC	0.075	0.949	Conduit, Insulation, Jacket
Petrothene	KR92828	0.17	0.955	Black jacket compound
Petrothene	LP540200	0.17	0.940	Natural insulation and jacket base resin
Petrothene	KR52828E	0.30	0.956	Black jacket compound
Petrothene	KR92717	0.70	0.948	Black jacket compound
Petrothene	LR590001	0.80	0.948	Natural insulation or buffer tube base resin; used in applications where pedestal test is required
Petrothene	LR590005	0.80	0.948	Natural insulation or jacket base resin with metal deactivator
Petrothene	LR686001	0.80	0.948	Chemical foam insulation; used in applications where pedestal test is required
Alathon	M5370RF	7.3	0.953	Gas injection blending component used in RF Coax insulation
Alathon	M6080WC	8.0	0.960	Gas injection blending component used in RF Coax insulation
Polypropylene				
Petrothene	PP1510PC	1.3	0.902	Natural jacket base resin
Pro-fax	EP315J	2.6	0.900	W&C Primary Insulation and Jacketing Resin
Black Masterbatch				
Petrothene	PM92973	6.8 (HLMI)	1.14	LLDPE black masterbatch (40%)
Flame Retardant, RoHS C	ompliant			
Aquathene	FR409800	0.70	1.47	Colorable FR masterbatch for MC, XHHW-2
Moisture Cure				
Aquathene	AQ120000	1.5	0.9225	EVS copolymer natural base resin
Aquathene	CM04483	13.5	0.932	Catalyst masterbatch
Aquathene	PM92949C	-	1.14	Black masterbatch (40%)

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### Polypropylene

Within each section, grades are listed in order of increasing melt flow rate (MFR)

Trade name	Grade name	Melt Flow Rate (g/10min) ASTM D1238	Tensile Strength (psi) ASTM D638	Flexural Modulus (psi) (1% Secant) ASTM D790	Notched Izod Impact (73°F) (ft-Ibs/in) ASTM D256	HDT (°F) (66 psi) ASTM D648	Additives	Typical Customer Application	Key properties
Homopolymers									
Pro-fax	HP403G	1.5	5000	220000	1.1	189		Netting, strapping, general extrusion	Good Heat Resistance; High Strength
Adstif	HA802H	2.3	5400	275000	1.0	219		Compounding, BOPP, Thermoforming, Sheet, Plastic Lumber	HCPP high stiffness
Pro-fax	HP553J	3.5	5200	222000	0.9	n.a.	LWCO	Tapes, raffia and general extrusion	Low water carryover
Impact Copolym	ners								
Petrothene	PP1510PC	1.3	n.a.	n.a.	n.a.	n.a.	WC	Natural jacket base resin	-
Pro-fax	EP611H	1.8	4100	205000	2.8	187		Corrugated board, Sheet Extrusion, Cast Film	Excellent stiffness / impact balance
Pro-fax	EP315J	2.6	3200	150000	n.a.	n.a.	WC	W&C Primary Insulation and Jacketing Resin	Metal deactivator
Pro-fax	7531	4.0	4100	180000	1.6	180		Thermoforming, Retort Containers, Lids	Medium impact

### Catalloy

Within each section, grades are listed in order of fabrication process, then increasing melt flow rate (MFR)

Fabrication Process	Trade name	Grade name	Melt Flow Rate (2.16 kg, 230°C) (g/10min) ISO 1133	Flexural Modulus (MPa) ISO 178	Tensile Stress at Break (MPa) ISO 527	Shore D Hardness (15 seconds) ISO 868	HDT (°C) (0.45 Mpa) ISO 75	VICAT (A50,°C) ISO 306	Charpy Notched Impact Strength (23°C) (kJ/m2) ISO 179	Charpy Notched Impact Strength (-20°C) (kJ/m2) ISO 179	Charpy Notched Impact Strength (-40°C) (kJ/m2) ISO 179	Typical Conversion Process(s)	Typical Customer Application
Blow Molding	Hifax	CA 10 A	0.6	90	11	30	40	60	NB	110	5	Sheet Extrusion, Compounding, Calendaring	Flexible Packaging
Blow Molding	Adflex	Q 200 F	0.8	150	13	35	44	76	60	87	2.1	Blown Film, Sheet Extrusion	Roofing Membrane, Geomembrane, Automotive
Blown Film	Adflex	Q 200 F	0.8	150	13	35	44	76	60	87	2.1	Blown Film, Sheet Extrusion	Automotive, Flexible Packaging
Blown Film	Adflex	KS 021 P	0.9	350	10	38	52	67	70	98	3.2	Blown Film, Sheet Extrusion, Compounding	Flexible Packaging
Calendaring	Hifax	CA 10 A	0.6	90	11	30	40	60	NB	110	5	Sheet Extrusion, Compounding, Calendaring	Flexible Packaging
Calendaring	Adflex	Q 200 F	0.8	150	13	35	44	76	60	87	2.1	Blown Film, Sheet Extrusion	Roofing Membrane, Automotive
Calendaring	Adflex	KS 021 P	0.9	350	10	38	52	67	70	98	3.2	Blown Film, Sheet Extrusion, Compounding	Flexible Packaging
Cast Film	Adflex	X 101 H	8	100	10	30	36	55	NB	NB	1.5	Cast Film, Compounding	Flexible Packaging, Bitumen Modification
Cast Film	Adflex	KS 311 P	9.5	530	15	46	53	112	59	4.1	1.4	Cast Film, Compounding	Flexible Packaging
Cast Film	Adflex	V 109 F	12	80	8	30	35	55	35	5	1.4	Cast Film, Compounding	Automotive, Flexible Packaging
Cast Film	Adflex	Z 108 S	27	80	6	30	37	53	33	2.8	1.3	Cast Film, Extrusion Coating, Fibers	Roofing Membrane, Automotive
Cast Film	Adflex	KS 084 P	30	100	13	35	40	53	47	2.8	1.2	Cast Film, Extrusion Coating	Flexible Packaging
Compounding	Hifax	CA 10 A	0.6	90	11	30	40	60	NB	110	5	Sheet Extrusion, Compounding, Calendaring	Flexible Packaging, Bitumen Modification

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### Catalloy

Within each section, grades are listed in order of fabrication process, then increasing melt flow rate (MFR)

CompoundingAdflexKS 021P0.93501038526770983.2Blown Film, Sheet Extrusion, CompoundingRoofing Membrane AutomotiveCompoundingHifaxCA 207 A7.55502246589465455Compounding, lijection MoldingAutomotiveCompoundingAdflexX101 H810010303655NBNB1.5Cast Film, CompoundingHeixle PackagingCompoundingAdflexK S311 P9.5530154653112594.11.4Cast Film, CompoundingHeixle PackagingCompoundingAdflexK S04 P128083035553551.4Cast Film, CompoundingHeixle PackagingExtrusion CoatingAdflexZ 108 S27806303753332.81.3Cast Film, Extrusion Coating, FibersRoofing Membrane AutomotiveFibersAdflexZ 108 S27806303753332.81.3Cast Film, Extrusion Coating, FibersFiexible Packaging FibersInjection MoldingHifaxC 4207 A7.55502.24.6589.46.54.55Compounding, Ijection MoldingAutomotive, Fiexible PackagingInjection MoldingHifaxC 4207 A7.55502.24.6589.46.54.55Compound	Geomembrane,
CompoundingAdflexX101 H810010303655NBNB1.5Cast Film, CompoundingFlexible PackagingCompoundingAdflexKS 311 P9.5530154653112594.11.4Cast Film, CompoundingFlexible PackagingCompoundingAdflexV 109 F128083035553551.4Cast Film, CompoundingFlexible PackagingExtrusion CoatingAdflexZ 108 S27806303753332.81.3Cast Film, Extrusion Coating, FibersRoofing MembraneExtrusion CoatingAdflexK S084 P3010013354053472.81.2Cast Film, Extrusion Coating, FibersFlexible PackagingFibersAdflexZ 108 S27806303753332.81.3Cast Film, Extrusion Coating, FibersFlexible PackagingFibersAdflexZ 108 S27806303753332.81.3Cast Film, Extrusion Coating, FibersFlexible PackagingFibersAdflexZ 108 S27806303753332.81.3Cast Film, Extrusion Coating, FibersFlexible PackagingInjection MoldingHifaxCA 207 A7.55502246589465455Compounding, Injection MoldingAutomotive, Flexible	
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Fibers   Adflex   Z 108 S   27   80   6   30   37   53   33   2.8   1.3   Cast Film, Extrusion Coating, Fibers   Flexible Packaging     Foaming   Hifax   CA 5010 A   0.9   800   30   65   70   145   95   10   5   Foaming   Flexible Packaging     Injection Molding   Hifax   CA 207 A   7.5   550   22   46   58   94   65   45   5   Compounding, Injection Molding   Automotive     Injection Molding   Adflex   X101 H   8   100   10   30   36   55   NB   NB   1.5   Cast Film, Compounding   Automotive, Flexible Packaging     Injection Molding   Adflex   X101 H   8   100   10   30   36   55   NB   NB   1.5   Cast Film, Compounding   Automotive, Flexible Packaging     Injection Molding   Adflex   KS311P   9.5   530   15   46   53   112   59   4.1   1.4   Cast Film, Compounding   Roofing Membrane     Injection Molding <td>Automotive</td>	Automotive
Foaming     Hifax     CA 5010 A     0.9     800     30     65     70     145     95     10     5     Foaming     Flexible Packaging       Injection Molding     Hifax     CA 207 A     7.5     550     22     46     58     94     65     45     5     Compounding, Injection Molding     Automotive       Injection Molding     Adflex     X101 H     8     100     10     30     36     55     NB     NB     1.5     Cast Film, Compounding     Automotive, Flexible Packaging       Injection Molding     Adflex     X101 H     8     100     10     30     36     55     NB     NB     1.5     Cast Film, Compounding     Automotive, Flexible Packaging       Injection Molding     Adflex     KS 311 P     9.5     530     15     46     53     112     59     4.1     1.4     Cast Film, Compounding     Plexible Packaging       Injection Molding     Adflex     V109 F     12     80     8     30     35     55     35     <	
Injection Molding     Hifax     CA 207 A     7.5     550     22     46     58     94     65     45     5     Compounding, Injection Molding     Automotive       Injection Molding     Adflex     X101 H     8     100     10     30     36     55     NB     NB     1.5     Cast Film, Compounding     Automotive, Flexible       Injection Molding     Adflex     KS 311 P     9.5     530     15     46     53     112     59     4.1     1.4     Cast Film, Compounding     Flexible Packaging       Injection Molding     Adflex     V109 F     12     80     8     30     35     55     35     5     14     Cast Film Compounding     Roofing Membrane	Bitumen Modification
Injection Molding     Adflex     X 101 H     8     100     10     30     36     55     NB     NB     1.5     Cast Film, Compounding     Automotive, Flexible       Injection Molding     Adflex     KS 311 P     9.5     530     15     46     53     112     59     4.1     1.4     Cast Film, Compounding     Flexible Packaging       Injection Molding     Adflex     V109 F     12     80     8     30     35     55     35     5     14     Cast Film Compounding     Roofing Membrane	
Injection Molding     Adflex     KS 311 P     9.5     530     15     46     53     112     59     4.1     1.4     Cast Film, Compounding     Flexible Packaging       Injection Molding     Adflex     V109 F     12     80     8     30     35     55     35     5     14     Cast Film, Compounding     Roofing Membrane	
Injection Molding Adfley, V109E 12 80 8 30 35 55 35 5 14 Cast Film Compounding Roofing Membrane	Packaging
Injection Molding Addlex V109E 12 80 8 30 35 55 35 5 14 Cast Film Compounding	
	Geomembrane,
Injection Molding Adflex Z 108 S 27 80 6 30 37 53 33 2.8 1.3 Cast Film, Extrusion Coating, Fibers Flexible Packaging	
Injection Molding Adflex KS 084 P 30 100 13 35 40 53 47 2.8 1.2 Cast Film, Extrusion Coating Automotive, Flexible	Packaging
Sheet and Profile Extrusion Hifax CA 10 A 0.6 90 11 30 40 60 NB 110 5 Sheet Extrusion, Compounding, Calendaring Flexible Packaging	
Sheet and Profile Extrusion   Adflex   Q 200 F   0.8   150   13   35   44   76   60   87   2.1   Blown Film, Sheet Extrusion   Roofing Membrane Automotive	Geomembrane,
Sheet and Profile Extrusion     Adflex     KS 021 P     0.9     350     10     38     52     67     70     98     3.2     Blown Film, Sheet Extrusion, Compounding     Foamed articles	
Sheet and Profile Extrusion     Adflex     Q 402 F     0.65     480     21     49     57     108     86     3.2     2.2     Blown Film     Flexible Packaging	

Fabrication Process	Trade name	Grade name	Melt Flow Rate (2.16 kg, 230°C) (g/10min) ISO 1133	Flexural Modulus (MPa) ISO 178	SIT (°C) Internal Method	Tm (°C) Internal Method	HDT (°C) (0.45 Mpa) ISO 75	VICAT (A50,°C) ISO 306	Haze (50 µm) ASTM D1003	Gloss (45°, 50 µm) ASTM D2457	Typical Customer Application
Foaming	Hifax	CA 5075 A	7.5	600	115	133	65	115	0.5	90	Foamed articles

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#### Abbreviation Information

А	Antistat
AB	Antiblock
С	Clarified
EMI	Estimated Melt Index
ESCR	Environmental Stress Crack Resistance
EXT	Extrusion
HIC	Household & Industrial Chemicals
HLMI	High Load Melt Index (21.6 kg)
ISBM	Injection Stretch Blow Molding
LTHA	Long Term Heat Aging
LWCO	Low Water Carry Over
Ν	Nucleation
n.a.	Not Applicable
N.B.	No Break
PEX	Crosslinked Polyethylene
S	Slip
TBD	To Be Determined
TWIM	Thin-Walled Injection Molding
UVI	Ultra Violet Index
WC	Wire and Cable Additive package

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