

Sheet extrusion and thermoforming – Polypropylene



Properties	Physical		Mechanical						Thermal			Optical		Special Additives	Peculiarities Typical Applications	
	Density 23°C	MFR 230°C, 2,16kg	Tensile Modulus	Tensile Stress at Yield	Tensile Elongation at Yield	Charpy notched impact strength			Ductile / Brittle Transition Temp.	Heat Deflect. Temp. HDT/B	Vicat Softening Temp. 10N	Haze 1mm	Gloss 60°			
						23 °C	0 °C	-20 °C								
Test Method	ISO 1183	ISO 1133	ISO 527	ISO 527	ISO 527	ISO 179			ISO 6603-2	ISO 75-2 0.45 MPa	ISO 306/A50	ASTM D1003	ISO 67530			
Units	g/cm³	g/10 min	MPa	%	%	kJ/m²			°C	°C	°C	%				
PP Homopolymer																
Moplen HP400H	0.9	2.0	1450	34	11	8	-	-	-	80	150	45	107	-	-	Easy processability & good stiffness/impact balance at ambient temperatures. Sheet, Tubs, & Containers.
Moplen HP501H	0.9	2.1	1450	33	9	5	-	-	-	85	154	-	-	-	-	Good stiffness/impact balance at ambient temperatures, UL listed. Sheet, Trays and lids
Moplen HP501L	0.9	6.0	1500	34	9	4.5	-	-	-	90	154	-	-	-	-	Good stiffness/impact balance at ambient temperatures. Sheet, Trays and lids
Moplen HP548L	0.9	5.5	1600	36	9	5.5	-	-	-	90	154	49	107	NU, AS	-	Good stiffness/impact balance at ambient temperatures. Dairy packaging, yellow fat packaging, lids & trays.
Moplen HP640J	0.9	3.2	1600	37	9	7	-	-	-	90	154	30	113	NU, AS	-	Excellent Processability, Good stiffness, & transparency. Food packaging cups, Containers, trays & lids
Moplen HP740J	0.9	3.0	1850	40	7	7	-	-	-	92	153	16	118	NU, AS	-	Excellent stiffness, Transparency, Superior processability. Food packaging cups, Containers, trays & lids
Moplen HP749J	0.9	3.0	1900	40	8	7	-	-	-	99	153	14	123	NU, AS	-	Superior processability, Exceptional Stiffness, Clarity, Heat resistance. BMMF not intentionally used. Margarine tubs, dairy & food packaging cups, containers, trays & lid.
PP Hetrophasic Copolymer																
Moplen EP440G	0.9	1.3	1400	27	8	40	10	7	-55	78	150	Opaque	65	NU	-	High stiffness, high impact strength at sub-zero temp. good dimensional stability. Sheet, corrugated board
Moplen EP240H	0.9	2.0	1000	23	8	80	12	8	-55	75	148	Opaque	73	NU	-	Excellent low-temperature impact strength and good processability. Microwave and freezer food packaging
Moplen EP300K	0.9	4.0	1200	27	9	13	6	5	<-50	75	150	Opaque	-	-	-	Good processability & Excellent Stiffness/Impact balance. Microwave and freezer food packaging
Moplen EP340K	0.9	4.0	1100	20	5	66	13	7	-57	85	140	Opaque	65	NU	-	Outstanding low temperature impact performance. Freezer & microwave food packaging
Moplen EP400H	0.9	2.0	1300	27	8	30	10	7	-55	78	153	Opaque	65	-	-	Good Processability, Excellent Stiffness/Impact balance, Broad service temperature range. Freezer & microwave food packaging
Moplen EP310J HP	0.9	3.0	1100	30	8	43	3	2	-	90	153	Opaque	-	NU	-	High stiffness/impact balance with superior optical properties. Microwave & freezer food packaging
Moplen EP490H	0.9	1.2	1100	23	9	60	9	6	-55	85	140	Opaque	53	NU	-	Good stiffness, high impact properties, Outstanding creep & melt strength. Low density foam application
PP Random Copolymer																
Moplen RP241H	0.9	1.8	900	24	14	35	4	-	-	68	127	9	133	NU	-	Excellent optical, Outstanding impact strength. Food packaging cups, containers & trays
Moplen RP242H	0.9	1.8	900	24	14	35	4	-	-	68	127	9	133	NU	-	Excellent optical, Outstanding impact strength, BMMF not intentionally used. Food packaging cups, Trays & containers
Moplen RP340H	0.9	1.8	1100	30	13	25	2.5	-	-	80	130	11	134	NU	-	Excellent clarity and Stiffness -impact balance. Food packaging cups, containers & trays.
Moplen RP341H	0.9	1.8	1100	30	13	25	2.5	-	-	80	130	11	134	NU	-	Excellent clarity & Stiffness -impact balance, BMMF not intentionally used. Food packaging cups, containers & trays
Moplen RP390H	0.9	1.8	1050	29	13	26	3.5	-	-	80	130	12	128	NU	-	Excellent clarity & good impact strength. Food packaging cups, containers & trays
Specialties Modifiers																
Adflex X100G	0.88	8	80	6	>40	NB	NB	105	<-50	40	56	-	-	-	-	Good processability, Improve flexibility, low temperature impact strength
Adflex X500F	0.89	7.5	550	14	20	65	80	45	<-50	58	94	23	110	-	-	High Transparency, Low Shrinkage with good Gloss & impact behavior at low temperature
Adflex C200F	0.89	6	200	8	35	65	-	30	<-50	41	80	10	45	-	-	Very high transparency with low temperature impact strength, improve sealability in multilayer system

Legend: NU=Nucleated; AS=Antistatic; NB= No Break

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