

Catalloy Process Resins

Key Properties and Applications



Catalloy Process Resins

Properties	Physical		Mechanical				Charpy Notched Impact Strength			Typical Conversion Processes	Typical Customer Applications	Notes
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	(23°C) (kJ/m2) ISO 179	(-20°C) (kJ/m2) ISO 179	(-40°C) (kJ/m2) ISO 179			
Adflex												
Q108F	0.60	100.0	10.0	30.0	40.0	60.0	41.0	107	2.8	Blown film, compounding	Automotive, flexible packaging	Color stability, flexibility and softness, elastic recovery
Q100F	0.60	100.0	10.0	30.0	40.0	60.0	NB	110	5.0	Blown film, calendaring	Flexible packaging	High impact, elastic recovery
Q401F	0.65	480.0	21.0	49.0	57.0	108.0	86.0	3.2	2.2	Blown film	Flexible packaging	Stiffness and impact balance
Q402F	0.65	480.0	21.0	49.0	57.0	108.0	86.0	3.2	2.2	Blown film	Flexible packaging	Stiffness and impact balance
Q200F	0.80	150.0	13.0	49.0	44.0	76.0	60.0	87.0	2.1	Blown film, sheet extrusion	Flexible packaging	High impact
KS021P	0.90	350.0	10.0	38.0	52.0	67.0	70.0	98.0	3.2	Blown film, sheet extrusion, compounding, blow molding	Automotive, flexible packaging, industrial blow molding	Soft touch, matte finish
Q302B	0.90	350.0	10.0	38.0	52.0	67.0	70.0	98.0	3.2	Blow molding, sheet extrusion	Automotive, tubes, bottles	Soft touch, matte finish, color stability
X101H	8.0	100.0	10.0	30.0	36.0	55.0	NB	NB	1.5	Cast film, compounding	Flexible packaging, bitumen modification	Flexibility and impact
X500F	7.5	550.0	22.0	46.0	58.0	94.0	65.0	45.0	5.0	Cast film, compounding, injection molding	Flexible packaging	Clarity impact modifier
KS311P	9.5	530.0	15.0	46.0	53.0	112.0	59.0	4.1	1.4	Cast film, compounding, injection molding	Roofing membrane, automotive	Soft touch, matte finish
V109F	12.0	80.0	8.0	30.0	35.0	55.0	35.0	5.0	1.4	Cast film, compounding, injection molding	Flexible packaging	Flexibility and impact
Z108S	27.0	80.0	6.0	30.0	37.0	53.0	33.0	2.8	1.3	Cast film, extrusion coating, fibers, injection molding	Flexible packaging	Flexibility and impact
KS084P	30.0	100.0	13.0	35.0	40.0	53.0	47.0	2.8	1.2	Cast film, extrusion coating, fibers, injection molding	Flexible packaging	Flexibility and impact
Hifax												
CA10A	0.60	90.0	11.0	30.0	40.0	60.0	NB	110.0	5.0	Sheet extrusion, compounding, calendaring	Roofing membrane, geomembrane, automotive	Flexibility and softness
X1956A	0.9	800.0	30.0	65.0	70.0	145.0	95.0	10.0	5.0	Compounding	Automotive	Anti-tiger stripe additive
CA138A	2.8	500.0	10.0	41.0	58.0	90.0	70.0	100.0	50.0	Compounding	Automotive	Low temp. Impact modifier
CA207A	7.5	550.0	22.0	46.0	58.0	94.0	65.0	45.0	5.0	Compounding, injection molding	Automotive	Low shrinkage
CA7442A	10.0	1000.0	17.0	54.0	86.0	121.0	50.0	10.0	4.5	Compounding, injection molding	Automotive	Low shrinkage
CA387A	18.5	1000.0	13.0	52.0	80.0	120.0	60.0	8.7	2.6	Compounding, injection molding	Automotive	Stiffness and low temp impact balance
7430XEP	18.5	1200.0	14.0	55.0	90.0	131.0	14.0	6.7	2.8	Compounding, injection molding	Automotive	Stiffness and low temp impact balance

Catalloy Process Resins

Properties	Physical		Mechanical					Charpy Notched Impact Strength			Typical Conversion Processes	Typical Customer Applications	Notes
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	Shore A Hardness	HDT (°C) (0.45 Mpa) ISO 75	VICAT (A50, °C) ISO 306	(23°C) (kJ/m2) ISO 179	(-20°C) (kJ/m2) ISO 179	(-40°C) (kJ/m2) ISO 179			
Softell													
CA02A	0.60	30.0	10.0	23.0	75.0	38.0	41.00	NB	NB	9.0	Sheet extrusion, compounding, calendaring	Automotive, roofing membrane	Flexibility and softness
CA7469A	0.50	130.0	7.0	87.0	87.0	39.0	50.0	NB	NB	80.0	Sheet extrusion, compounding, calendaring	Automotive	Flexibility, softness, low gloss
Hiflax													
CA7469A	2.0	180.0	11.0	26.0		45.0	58.0	NB	NB	110.0	Compounding, injection molding	Automotive	Impact modifier

Grade Name	Melt Flow Rate (2.16 kg, 230°C)	Flexural Modulus (MPa)	SIT (°C) Internal Method	Tm (°C) Internal Method	HDT (°C) (0.45 Mpa) ISO 75	VICAT (A50, °C) ISO 306	Haze (50 m) ASTM	Gloss (45°, 50 m)	Typical Conversion Processes	Typical Customer Applications	Notes
Adsyl											
6C30F	5.5	500.0	95.0	128.0	59.0	103.0	0.2	92.0	BOPP, Cast film	Flexible packaging	Sealing resin
5C30F	5.5	600.0	105.0	132.0	62.0	107.0	0.6	88.0	BOPP, Cast film	Flexible packaging	Sealing resin
5C37F	5.5	600.0	105.0	132.0	62.0	107.0	1.0	87.0	BOPP, Cast film	Flexible packaging	Sealing resin
7416XCP	7.5	600.0	115.0	133.0	65.0	115.0	0.5	90.0	BOPP, Cast film	Flexible packaging	Sealing resin

About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

Before using a product sold by a company of the LyondellBasell family of companies ("LyondellBasell"), users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. LyondellBasell MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OTHER THAN AS AGREED TO BY LyondellBasell IN

THE PRODUCT SALES CONTRACT. LyondellBasell prohibits or restricts the use of its products in certain applications. For further information on restrictions or prohibitions of use, please contact a LyondellBasell representative.

Users should review the applicable Material Safety Data Sheet before handling the product.

Circulen, Luflexen, Hostalen, Petrothene, Catalloy, Adstif, Moplen, Adflex, Toppyl, Polybatch and Polywhite are trademarks owned or used by the LyondellBasell family of companies. *Circulen, Hostalen, Petrothene, Adstif, Moplen, Adflex, Toppyl and Polybatch* are registered in the U.S. Patent and Trademark Office.

For more information, please visit www.lyb.com.

