

Diamond Polymers Centrex® 485 Sheet Extrusion Grade

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Centrex 485 resin is a low-gloss, medium-impact grade of ASA (acrylonitrile-styrene-acrylate) with good resistance to weather aging. It has good melt strength for extrusion and thermoforming, and it can be easily coextruded. The recommended substrate is ABS (acrylonitrile-butadiene-styrene) resin. Applications: Typical applications include those requiring weatherability and low gloss such as automotive and truck interiors, exterior siding and trim profiles. As with any product, use of Centrex 485 resin in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability. Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-Centrex-485-Sheet-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Melt Flow	7.0 g/10 min	7.0 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	79	79	ASTM D785
Tensile Strength, Yield	20.7 MPa	3000 psi	chs 2.0 in/min; ASTM D638
Tensile Modulus	1.447 GPa	209.9 ksi	chs 2.0 in/min; ASTM D638
Flexural Strength	38.6 MPa	5600 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	1.378 GPa	199.9 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	0.640 J/cm	1.20 ft-lb/in	
Impact Test	@Thickness 3.17 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	ASTM D256
	1.07 J/cm	2.00 ft-lb/in	
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Impact Test	6.00 J	4.43 ft-lb	ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature -18.0 °C	@Temperature -0.400 °F	ASTM D3763
	24.0 J	17.7 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	94.0 µm/m-°C	52.2 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	79.0 °C	174 °F	0.125";; ASTM D648

Optical Properties	Metric	English	Comments
Gloss	10 %	10 %	Formed; 60°; ASTM D523
	20 %	20 %	Sheet; 60°; ASTM D523

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