

Diamond Polymers Centrex® 833 Sheet Extrusion Grade

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Centrex 833 resin is a high-gloss, high-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 for Centrex 833 resin includes exterior parts requiring high gloss, such as spas; marine components, boat hulls and decks; doors, covers, and trim for recreational vehicles; swimming pool steps; and fiberglass-reinforced plastic replacements. As with any product, use of Centrex 833 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-833-Sheet-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Melt Flow	8.0 g/10 min @Load 10.0 kg, Temperature 220 °C	8.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	89	89	ASTM D785
Tensile Strength, Yield	31.7 MPa	4600 psi	chs 2.0 in/min; ASTM D638
Tensile Modulus	1.60 GPa	232 ksi	chs 2.0 in/min; ASTM D638
Flexural Strength	51.7 MPa	7500 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	16.0 GPa	2320 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	1.17 J/cm @Thickness 3.17 mm, Temperature -30.0 °C	2.19 ft-lb/in @Thickness 0.125 in, Temperature -22.0 °F	ASTM D256
	1.33 J/cm @Thickness 3.17 mm, Temperature -18.0 °C	2.49 ft-lb/in @Thickness 0.125 in, Temperature -0.400 °F	ASTM D256
	3.47 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	6.50 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256
Impact Test	30.0 J @Temperature -30.0 °C	22.1 ft-lb @Temperature -22.0 °F	ASTM D3763

Mechanical Properties	Metric	English	Comments
	77.2 °C	28.0 ft-lb	ASTM D3763
	@Temperature -18.0 °C	@Temperature -0.400 °F	
	43.0 J	31.7 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	0.125";, ASTM D648
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Gloss	75 - 85 %	75 - 85 %	Formed; 60°; ASTM D523
	90 - 100 %	90 - 100 %	Sheet; 60°; ASTM D523

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