

Diamond Polymers Centrex® 821 ASA Weatherable Polymers Injection Molding Grade

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Centrex 821 resin is a medium-gloss, high-heat, medium-impact grade of ASA (acrylonitrile-styrene-acrylate). It is an injection molding grade with a good balance of physical properties, gloss and processing performance, along with good resistance to weather aging. Applications: Centrex 821 resin is used for exterior applications. As with any product, use of Centrex 821 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-821-ASA-Weatherable-Polymers-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955
Melt Flow	9.0 g/10 min @Load 10.0 kg, Temperature 220 °C	9.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	101	101	ASTM D785
Tensile Strength, Yield	43.0 MPa	6240 psi	chs 2.0 in/min; ASTM D638
Tensile Modulus	2.50 GPa	363 ksi	chs 2.0 in/min; ASTM D638
Flexural Strength	69.0 MPa	10000 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.270 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	0.506 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	1.60 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	3.00 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256
Impact Test	8.20 J @Temperature -40.0 °C	6.05 ft-lb @Temperature -40.0 °F	ASTM D3763
	33.0 J	24.3 ft-lb	ASTM D3763

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	79.0 °C	174 °F	0.125";, ASTM D648
	88.0 °C	190 °F	0.5";, ASTM D648
Vicat Softening Point	112 °C @Load 1.00 kg	234 °F @Load 2.20 lb	120°C/hr; ASTM D1525
Flammability, UL94	HB @Thickness 0.749 mm	HB @Thickness 0.0295 in	

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