

Diamond Polymers Centrex® 814 General Purpose Injection Molding Grade

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Centrex 814 resin is a high-gloss, high-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: Typical applications for Centrex 814 resin includes exterior parts such as marine components, pool accessories, spa components, lawn and garden accessories, large, outdoor TV screen displays; pool accessories, recreation vehicle components and outdoor advertising sign parts. As with any product, use of Centrex 814 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-814-General-Purpose-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	38.5 MPa	5580 psi	chs 2.0 in/min; ASTM D638
Tensile Modulus	2.10 GPa	305 ksi	chs 2.0 in/min; ASTM D638
Flexural Strength	68.7 MPa	9960 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.750 J/cm @Thickness 3.17 mm, Temperature -30.0 °C	1.41 ft-lb/in @Thickness 0.125 in, Temperature -22.0 °F	ASTM D256
	2.70 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	5.06 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256
Impact Test	8.20 J @Temperature -30.0 °C	6.05 ft-lb @Temperature -22.0 °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)	71.0 °C	160 °F	0.125";; ASTM D648
	77.0 °C	171 °F	0.25";; ASTM D648
Vicat Softening Point	101 °C	214 °F	120°C/hr; ASTM D1525
	@Load 1.00 kg	@Load 2.20 lb	
Flammability, UL94	HB	HB	
	@Thickness 0.749 mm	@Thickness 0.0295 in	

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