

Diamond Polymers Centrex® 810 Injection Molding Grade

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Centrex 810 resin is a soft-flow, high-gloss, and 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. As with any product, use of Centrex 810 resin must be tested (including field testing, etc.) 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-810-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955
Melt Flow	21 g/10 min @Load 10.0 kg, Temperature 220 °C	21 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	40.7 MPa	5900 psi	chs 2.0 in/min; ASTM D638
Tensile Modulus	2.46 GPa	357 ksi	chs 2.0 in/min; ASTM D638
Flexural Strength	70.3 MPa	10200 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.39 GPa	347 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm, Temperature -30.0 °C	1.00 ft-lb/in @Thickness 0.125 in, Temperature -22.0 °F	ASTM D256
	0.641 J/cm @Thickness 3.17 mm, Temperature 0.000 °C	1.20 ft-lb/in @Thickness 0.125 in, Temperature 32.0 °F	ASTM D256
	0.854 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	1.60 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256
Impact Test	10.0 J @Temperature -30.0 °C	7.38 ft-lb @Temperature -22.0 °F	ASTM D3763
	40.0 J	29.5 ft-lb	

Mechanical Properties	Metric @ Temperature 0.000 °C	English @ Temperature 32.0 °F	ASTM D3763 Comments
	45.0 J	33.2 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	0.125";; ASTM D648
	80.0 °C	176 °F	0.25";; ASTM D648
Vicat Softening Point	104 °C	219 °F	120°C/hr; ASTM D1525
	@Load 1.00 kg	@Load 2.20 lb	
	93.0 °C	199 °F	ASTM D1525
	@Load 5.00 kg, Thickness 1270 mm	@Load 11.0 lb, Thickness 50.0 in	

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