

Diamond Polymers Centrex® 925 Injection Molding Grade

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC) , Polycarbonate/ASA Alloy, Unreinforced

Material Notes:

Centrex 925 resin is a soft-flow, high-gloss, molding grade of Polycarbonate / ASA (acrylonitrile-styrene-acrylate) blend. It is an injection molding grade with a good balance of physical properties and processability and good resistance to weather aging, making it an ideal choice for mold-in color parts used in outdoor applications. As with any product, use of Centrex 925 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-925-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Melt Flow	15 g/10 min	15 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	32 g/10 min	32 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	54.4 MPa	7890 psi	chs 0.2 in/min; ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	chs 0.2 in/min; ASTM D638
Flexural Strength	96.5 MPa	14000 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.963 GPa	429.7 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.374 J/cm	0.701 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -30.0 °C	@Thickness 0.125 in, Temperature -22.0 °F	
	2.14 J/cm	4.01 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Impact Test	5.00 J	3.69 ft-lb	ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	42.0 J	31.0 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)	85.0 °C	185 °F	0.125";, ASTM D648
Vicat Softening Point	102 °C	216 °F	50°C/hr; ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	
	113 °C	235 °F	120°C/hr; ASTM D1525
	@Load 1.00 kg	@Load 2.20 lb	

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