

Diamond Polymers Centrex® HGM Automotive Grade, Injection Molding Grade

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Centrex HGM resin is an exceptionally high-gloss grade of ASA (acrylonitrile-styrene-acrylate). This injection molding grade has excellent gloss retention, excellent resistance to chemicals and high heat, good resistance to weather aging, and a wide molding window. Applications: Centrex HGM resin is used in the automotive market for exterior applications such as mirror housings, cowl grilles, license plate pockets, exterior trim and radiator grilles. As with any product, use of Centrex HGM 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-HGM-Automotive-Grade-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955
Melt Flow	0.40 g/10 min	0.40 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	3.5 g/10 min	3.5 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength, Yield	39.0 MPa	5660 psi	chs 0.2 in/min; ASTM D638
Tensile Modulus	2.136 GPa	309.8 ksi	chs 0.2 in/min; ASTM D638
Flexural Strength	63.0 MPa	9140 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.067 GPa	299.8 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	2.08 J/cm	3.90 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	1.10 J	0.811 ft-lb	

Mechanical Properties	Metric	English	ASTM D3763 Comments
	30.0 J @Temperature -40.0 °C	22.1 ft-lb @Temperature -40.0 °F	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	121 µm/m-°C	67.2 µin/in-°F	ASTM D696
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	0.125";; ASTM D648
	88.0 °C	190 °F	0.5";; ASTM D648
Vicat Softening Point	116 °C	241 °F	120°C/hr; ASTM D1525
	@Load 1.00 kg	@Load 2.20 lb	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China