

Diamond Polymers Centrex® 813 General Purpose Injection Molding Grade ASA/AES

Category : Polymer , Thermoplastic , AES Polymer , ASA Polymer , ASA/AES, Unreinforced, Extruded/Molded

Material Notes:

Centrex 813 resin is a high-gloss, high-impact grade of ASA/AES, a blend of acrylonitrile-styrene-acrylate and acrylonitrile-ethylene-propylene styrene. This injection molding grade with a good balance of physical properties and processing performance, along with good resistance to weather aging. It also features excellent low-temperature multiaxial impact strength. Applications: Centrex 813 resin is used in lawn and garden tractor components; boat and marine accessory parts; large, outdoor TV screen displays; pool accessories, covers, and filter housings. As with any product, use of Centrex 813 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-813-General-Purpose-Injection-Molding-Grade-ASAAES.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	8.0 g/10 min @Load 10.0 kg, Temperature 220 °C	8.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	85	85	ASTM D785
Tensile Strength, Yield	34.0 MPa	4930 psi	chs 2.0 in/min; ASTM D638
Tensile Modulus	2.00 GPa	290 ksi	chs 2.0 in/min; ASTM D638
Flexural Strength	54.0 MPa	7830 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	1.929 GPa	279.8 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	0.993 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	3.90 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	7.31 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256
Impact Test	22.0 J @Temperature -40.0 °C	16.2 ft-lb @Temperature -40.0 °F	ASTM D3763
	33.0 J	24.3 ft-lb	

Mechanical Properties	Metric	English	ASTM D3763 Comments
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	0.125";; ASTM D648
	77.0 °C	171 °F	0.5";; 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 15.0 mm	@Thickness 0.590 in	

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