

Diamond Polymers ASA TWP 155

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

Description: Transparent Weatherable Polymer Information provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ASA-TWP-155.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	2.1 g/10 min	2.1 g/10 min	Procedure A Condition G; ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	14 g/10 min	14 g/10 min	Procedure A Condition I; ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	58.29 MPa	8454 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.34 GPa	339 ksi	Procedure B, Test Method I (chs 0.05 in/min); ASTM D790
Izod Impact, Notched	0.320 J/cm	0.600 ft-lb/in	Test Method A (0.125 in bar); ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
Vicat Softening Point	95.0 °C	203 °F	0.125 inch, 1 Kg; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.6 %	7.6 %	ASTM D1003
	@Thickness 3.00 mm	@Thickness 0.118 in	
Transmission, Visible	85.5 %	85.5 %	ASTM D1003
	@Thickness 3.00 mm	@Thickness 0.118 in	

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