

Diamond Polymers ASA TWP 502

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-502.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	ASTM D955
Melt Flow	1.3 g/10 min	1.3 g/10 min	Procedure A Condition G; ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	3.9 g/10 min	3.9 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	98	98	ASTM D785
Tensile Strength, Yield	34.8 MPa	5050 psi	chs 2 in/min; ASTM D638
Flexural Modulus	1.34 GPa	195 ksi	Procedure B, Test Method I (chs 0.05 in/min); ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 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)	57.8 °C	136 °F	0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
Vicat Softening Point	93.9 °C	201 °F	0.125 inch, 1 Kg; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	
Transmission, Visible	88 %	88 %	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	229 - 260 °C	445 - 500 °F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	235 - 271 °C	455 - 520 °F	
Nozzle Temperature	221 - 271 °C	430 - 520 °F	
Melt Temperature	221 - 271 °C	430 - 520 °F	Melt temperatures above 530°F are not recommended, and may result in color shifts and or thermal instability.
Mold Temperature	37.8 - 82.2 °C	100 - 180 °F	Higher mold temperature can aid flow in processing, provides a better surface finish, and creates less residual stress in the finished products.
Drying Temperature	80.0 - 85.0 °C	176 - 185 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	
Back Pressure	0.517 - 1.03 MPa	75.0 - 150 psi	

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