

## Diamond Polymers ASA TWP 121

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-121.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-ASA-TWP-121.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	ASTM D955
Melt Flow	2.5 g/10 min	2.5 g/10 min	Procedure A Condition G; ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	13 g/10 min	13 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	55.2 MPa	8000 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.20 GPa	319 ksi	Procedure B, Test Method I (chs 0.05 in/min); ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 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)	65.0 °C	149 °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	6.0 %	6.0 %	
Transmission, Visible	88 %	88 %	

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