



DIAMOND POLYMERS, INC.

ASA -TWP

121

Transparent Weatherable Polymer

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A Condition G (200°C/5.0 kg) Condition I (230°C/3.8 kg)	D-1238	g/10 min g/10 min	2.5 13
Specific Gravity	D-792		1.15
Mold Shrinkage	D-955	in/in cm/cm	0.006 - 0.010 0.006 - 0.010
Rockwell Hardness	D-785	R-Scale	98
IMPACT			
Izod Impact, notched Test Method A (0.125" bar)	D-256	ft-lb/in J/m	1.0 53
FLEXURAL			
Flexural Modulus - Procedure B Test Method I (chs 0.05 in/min)	D-790	psi MPa	319,000 2198
TENSILE			
Tensile Yield Strength chs 2 in/min	D-638	psi MPa	8000 55.1
THERMAL			
Heat Deflection Temperature 0.125" bar @ 1.8 Mpa (264 psi) Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F °C	149 65
Vicat Softening Point 0.125" bar / wt = 1 kg	D-1525	°F °C	201 94
OPTICAL			
Haze (3mm specimen)	D-1003	%	6
Light Transmission (3mm specimen)	D-1003	%	88

SDB/00-6

The information contained herein is provided for general reference purposes only. Diamond Polymers Inc. makes no guarantee or warranty and does not assume liability with respect to the accuracy or completeness of the information presented, or the product results in any specific instance and hereby expressly disclaims any implied warranties of suitability or fitness for a particular purpose or any other warranties or representations whatsoever expressed or implied. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of patent.