



DIAMOND POLYMERS, INC.

ASA -TWP

502

Transparent Weatherable Polymer

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	Transparent Weatherable Polymer	
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	1.3 3.9	
Specific Gravity	D-792		1.12	
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	2.0 106	
FLEXURAL				
Flexural Modulus - Procedure B Test Method I (chs 0.05 in/min)	D-790	psi MPa	195,000 1344	
TENSILE				
Tensile Yield Strength chs 2 in/min	D-638	psi MPa	5050 34.8	
THERMAL				
Heat Deflection Temperature 0.125" bar Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648		@ 264 psi	@ 66 psi
		°F	156	181
		°C	69	83
Annealed 4 hours @ 80°C (176°F)		°F	187	201
		°C	86	94
Vicat Softening Point 0.125" bar / wt = 1 kg	D-1525	°F °C	201 94	
OPTICAL				
Haze (3mm specimen)	D-1003	%	8	
Light Transmission (3mm specimen)	D-1003	%	88	

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