



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers  
Injection Molding Grade

**ASA TW-18B3**  
Very High Heat

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A Condition I (230°C/3.8 kg)	D-1238	g/10 min	1.3
Specific Gravity	D-792		1.08
Mold Shrinkage	D-955	in/in cm/cm	-- --
IMPACT			
Izod Impact, notched 0.125", 23° C (73° F)	D-256	ft-lb/in J/m	1.4 75
FLEXURAL			
Flexural Modulus, tangent, chs 0.05 in/min	D-790	psi MPa	381,000 2,625
TENSILE			
Tensile Yield Strength, chs 2 in/min	D-638	psi MPa	7,470 51.5
THERMAL			
Heat Deflection Temperature 0.125" bar @ 1.8 Mpa (264 psi) Unannealed/Conditioned 40 hours @ 23° C (73° F)	D-648	°F °C	216 102
Vicat Softening Point, 0.125", 1Kg	D-1525	°F °C	268 131

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