



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers
Injection Molding Grade

ASA TW-18B2

Very High Heat

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A	D-1238		
Condition (200° C/5.0 kg)		g/10 min	0.3
Condition (230°C/3.8 kg)		g/10 min	1.3
Condition (220°C/10.0 kg)		g/10 min	4.1
Specific Gravity	D-792		1.12
Mold Shrinkage	D-955	in/in cm/cm	0.004-0.007 0.004-0.007
Rockwell Hardness	D-785	R scale	102
IMPACT			
Izod Impact, notched 0.125", 23° C (73° F)	D-256	ft-lb/in J/m	1.6 85
FLEXURAL			
Flexural Modulus, tangent, chs 0.05 in/min	D-790	psi MPa	353,000 2,432
TENSILE			
Tensile Yield Strength, chs 2 in/min	D-638	psi MPa	7075 49.0
THERMAL			
Heat Deflection Temperature	D-648		
0.125" bar @ 1.8 Mpa(264 psi)			
Unannealed/Conditioned		°F	205
40 hours @ 23°C (73°F)		°C	96
0.250" bar @ 1.8 Mpa(264 psi)		°F	230
Unannealed/Conditioned		°C	110
40 hours @ 23°C (73°F)			
Vicat Softening Point, 0.125", 1Kg	D-1525	°F °C	264 129

SDB/01-1

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