



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers
Injection Molding Grade

ASA S124
Medium Modulus

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A 200° C/5.0 kg 230° C/3.8 kg 220° C/10 kg	D-1238	g/10 min	1.8 5.4 26.0
Specific Gravity	D-792		1.07
Mold Shrinkage	D-955	in/in cm/cm	0.004-0.008 0.004-0.008
IMPACT			
Izod Impact, notched 0.125" bar, 23° C (73° F)	D-256	ft-lb/in J/m	1.9 101.5
FLEXURAL			
Flexural Modulus, tangent chs 0.05 in/min	D-790	psi MPa	339,000 2336
TENSILE			
Tensile Yield Strength, chs 2 in/min	D-638	psi MPa	6,653 45.8
THERMAL			
Heat Deflection Temperature 0.125" bar @ 264 psi Unannealed/Conditioned 40 hours @ 23° C (73° F)	D-648	°F °C	180 82
Vicat Softening Point 0.125" bar/wt 1000g	D-1525	°F °C	228 109

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