



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers
Injection Molding Grade

ASA S150
High Impact

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A 220°C/10 kg 265°C/5 kg	D-1238	g/10 min	15 25
Specific Gravity	D-792		1.06
Mold Shrinkage	D-955	in/in cm/cm	0.004-0.008 0.004-0.008
Rockwell Hardness	D-785	R scale	98
IMPACT			
Izod Impact, notched 0.125" bar, 23° C (73° F)	D-256	ft-lb/in J/m	5.0 267
FLEXURAL			
Flexural Modulus, tangent chs 0.05 in/min	D-790	psi MPa	260,000 1,791
TENSILE			
Tensile Yield Strength, Type I bar chs 2 in/min	D-638	psi MPa	5,240 36.1
Elongation, Type I bar, chs 2.0 in/min @ yield @ break	D-638	% %	2.0 28.0
THERMAL			
Heat Deflection Temperature Unannealed/Conditioned 48 hours @ 23° C (73° F) 0.125" bar @ 264 psi 0.250" bar @ 264 psi	D-648	°F / °C °F / °C	165 / 74 181 / 83
Vicat Softening Point, 0.125", 1 Kg	D-1525	°F / °C	216 / 102

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