



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers
Extrusion Grade

ASA S150E

Natural 1115
Medium Impact

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A Condition G (200°C/5.0 kg) Condition I (220°C/10.0 kg)	D-1238	g/10 min g/10 min	0.2 3.9
Specific Gravity	D-792		1.07
Mold Shrinkage	D-955	in/in cm/cm	0.003-0.007 0.003-0.007
Rockwell Hardness	D-785	R scale	95
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	335,000 2,308
Flexural Strength, tangent chs 0.05 in.min	D-790	psi MPa	8,400 57.8
TENSILE			
Tensile Yield Strength, chs 2 in/min	D-638	psi MPa	7,300 50.3
Tensile Modulus	D-638	psi MPa	
THERMAL			
Heat Deflection Temperature 0.125" bar @ 264 psi Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F °C	172 78
0.250" bar @ 264 psi 48 hours @ 23°C (73°F)		°F °C	185 85
Vicat Softening Point, 0.125", 1 Kg	D-1525	°F °C	198 92

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