



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers
Injection Molding Grade

ASA S210

Medium Heat / Medium Impact

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A Condition G (200° C/5.0 kg) Condition I (230° C/3.8 kg) Condition (220°C/10 kg)	D-1238	g/10 min	1.8 5.4 17.5
Specific Gravity	D-792		1.06
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, Type I bar, chs 2 in/min	D-638	psi MPa	6,653 45.8
Elongation, Type I bar, chs 2 in/min @ yield @ break	D-638	% %	2.0 25.0
THERMAL			
Heat Deflection Temperature Unannealed/Conditioned 40 hours @ 23° C (73° F) 0.125" bar @ 264 psi 0.250" bar @ 264 psi	D-648	°F / °C °F / °C	183 / 84 192 / 89
Vicat Softening Point 0.125" bar/wt 1000g	D-1525	°F / °C	221 / 105

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