



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers  
Extrusion Molding Grade

**ASA S210E**  
Medium Modulus

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
<b>PHYSICAL</b>			
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	1.0 5.4 17.5
Specific Gravity	D-792		1.07
Mold Shrinkage	D-955	in/in cm/cm	0.004-0.008 0.004-0.008
<b>IMPACT</b>			
Izod Impact, notched 0.125" bar, 23° C (73° F)	D-256	ft-lb/in J/m	1.9 101.5
<b>FLEXURAL</b>			
Flexural Modulus, tangent chs 0.05 in/min	D-790	psi MPa	339,000 2336
<b>TENSILE</b>			
Tensile Yield Strength, chs 2 in/min	D-638	psi MPa	6,653 45.8
<b>THERMAL</b>			
Heat Deflection Temperature 0.125" bar @ 264 psi Unannealed/Conditioned 40 hours @ 23° C (73° F)	D-648	°F °C	183 84
0.250" bar @ 264 psi Unannealed/Conditioned 40 hours @ 23° C (73° F)	D-648	°F °C	192 89
Vicat Softening Point 0.125" bar/wt 1000g	D-1525	°F °C	221 105

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