



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers  
Injection Molding Grade

**ASA S130**  
Medium Impact & Modulus

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
<b>PHYSICAL</b>			
Melt Flow Rate - Procedure A 220°C/10 kg)	D-1238	g/10 min	15
Specific Gravity	D-792		1.05
Mold Shrinkage	D-955	in/in	0.004-0.008
Rockwell Hardness	D-785	R scale	102
<b>IMPACT</b>			
Izod Impact, notched 0.125" bar, 23° C (73° F)	D-256	ft-lb/in J/m	3.0 160
<b>FLEXURAL</b>			
Flexural Modulus, tangent chs 0.05 in/min	D-790	psi MPa	345,000 2,377
<b>TENSILE</b>			
Tensile Yield Strength, chs 2 in/min	D-638	psi MPa	6,500 44.7
<b>THERMAL</b>			
Heat Deflection Temperature 0.125" bar @ 264 psi Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F °C	185 85
Annealed 4 hours @ 80° C (176° F)		°F °C	--- ---
Vicat Softening Point, 0.125", 1 Kg	D-1525	°F °C	201 94

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