



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers
Injection Molding Grade

ASA S310
Medium Impact & Modulus

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	ASA S310 Medium Impact & Modulus
PHYSICAL			
Melt Flow Rate - Procedure A	D-1238		
Condition G (200° C/5.0 kg)		g/10 min	1.5
Condition I (230° C/3.8 kg)		g/10 min	4.0
Specific Gravity	D-792		1.06
Mold Shrinkage	D-955	%	0.5
Rockwell Hardness	D-785	R scale	102
IMPACT			
Izod Impact, notched	D-256	ft-lb/in J/m	2.7
0.125" bar, 23° C (73° F)			144
FLEXURAL			
Flexural Modulus, tangent	D-790	psi MPa	350,000
chs 0.05 in/min			2,415
TENSILE			
Tensile Yield Strength,	D-638	psi MPa	6,800
chs 2 in/min			47.0
THERMAL			
Heat Deflection Temperature	D-648		
0.125" bar @ 264 psi			
Unannealed/Conditioned		°F	174
48 hours @ 23° C (73° F)		°C	79
0.250" bar @ 264 psi	D-648		
Unannealed/Conditioned		°F	180
48 hours @ 23° C (73° F)		°C	82
Vicat Softening Point, 0.125", 1 Kg	D-1525	°F	203
		°C	95

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