



DIAMOND POLYMERS, INC.

ASA Weatherable Polymers
Injection Molding Grade

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	ASA S190 Very High Impact
PHYSICAL			
Melt Flow Rate - Procedure A Condition G (200° C/5.0 kg) Condition I (230° C/3.8 kg)	D-1238	g/10 min g/10 min	0.9 2.7
Specific Gravity	D-792		1.07
Mold Shrinkage	D-955	in/in cm/cm	0.004-0.008 0.004-0.008
Rockwell Hardness	D-785	R scale	88
IMPACT			
Izod Impact, notched 0.125" bar, 23° C (73° F)	D-256	ft-lb/in J/m	8.5 454
FLEXURAL			
Flexural Modulus, tangent chs 0.05 in/min	D-790	psi MPa	273,000 1,881
TENSILE			
Tensile Yield Strength, chs 2 in/min	D-638	psi MPa	5,100 35.1
THERMAL			
Heat Deflection Temperature 0.125" bar @ 264 psi Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F °C	162 72
Annealed 4 hours @ 80° C (176° F)		°F °C	196 91
Vicat Softening Point 0.125" bar/wt 1000g	D-1525	°F °C	212 100

SDB/01-12

The information contained herein is provided for general reference purposes only. Diamond Polymers Inc. makes no guarantee or warranty and does not assume liability with respect to the accuracy or completeness of the information presented, or the product results in any specific instance and hereby expressly disclaims any implied warranties of suitability or fitness for a particular purpose or any other warranties or representations whatsoever expressed or implied. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of patent.