



DIAMOND POLYMERS, INC.

Injection Molding Grade

ABS 3500
NATURAL 1050
 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)	D-1238	g/10 min g/10 min	2.2 8.3
Specific Gravity	D-792		1.06
Mold Shrinkage	D-955	in/in cm/cm	0.004-0.006 0.004-0.006
Rockwell Hardness	D-785	R scale	110
IMPACT			
Izod Impact, notched 0.125", 23° C (73° F)	D-256	ft-lb/in J/m	4.0 213.6
FLEXURAL			
Flexural Modulus, tangent, chs 0.05 in/min	D-790	psi MPa	336,000 2,315
TENSILE			
Tensile Yield Strength, chs 2 in/min	D-638	psi MPa	6,700 46.2
THERMAL			
Heat Deflection Temperature 0.125" bar @ 1.8 Mpa (264 psi) Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F °C	171 77
Annealed 4 hours @ 80° C (176° F)		°F °C	201 94
Vicat Softening Point, 0.125", 1Kg	D-1525	°F °C	219 104
FLAMMABILITY RATING			
Minimum Thickness 1.5mm / 0.0625in / 1/16" 2.5mm / 0.100in / 3/32" 3.0mm / 0.125in / 1/8" U.L. File Number	UL 94 UL 94 UL 94		HB E119088

FDA Status: ABS 3500 Natural 1050 meets the requirements of FDA regulation 21CFR 177.1050, 21CFR 178.2010

ES/4-20-98

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