



DIAMOND POLYMERS, INC.

Reinforced Grade

ABS 3501 GF-10

10% Glass Filled

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A	D-1238	g/10 min g/10 min	1.1
Condition G (200° C/5.0 kg) Condition I (230° C/3.8 kg)			3.5
Specific Gravity	D-792		1.11
Mold Shrinkage	D-955	in/in cm/cm	0.002-0.004 0.002-0.004
Rockwell Hardness	D-785	R scale	113
IMPACT			
Izod Impact, notched 0.125", 23° C (73° F)	D-256	ft-lb/in J/m	1.7 90.8
FLEXURAL			
Flexural Modulus, tangent, chs 0.05 in/min	D-790	psi MPa	467,000 3,218
TENSILE			
Tensile Yield Strength, chs 2 in/min	D-638	psi MPa	8,400 57.9
THERMAL			
Heat Deflection Temperature 0.125" bar @ 1.8 Mpa (264 psi) Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F	201
		°C	94
Annealed 4 hours @ 80° C (176° F)		°F	212
		°C	100
Vicat Softening Point, 0.125", 1Kg	D-1525	°F	232
		°C	111
FLAMMABILITY RATING			
Minimum Thickness			
1.5mm / 0.0625in / 1/16"	UL 94		
2.5mm / 0.100in / 3/32"	UL 94		
3.0mm / 0.125in / 1/8"	UL 94		
U.L. File Number			

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