



DIAMOND POLYMERS, INC.

DIAMALLOY

FR 530 PC/PBT ALLOY

30% Glass Filled Flame Retardant

Polyester Alloy

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A Condition 265°C/2.16 kg	D-1238	g/10 min	25
Specific Gravity	D-792		1.52
Mold Shrinkage	D-955	in/in cm/cm	0.001 - 0.003 0.001 - 0.003
IMPACT			
Izod Impact, notched Test Method A (0.125" bar)	D-256	ft-lb/in J/m	1.6 85
FLEXURAL			
Flexural Modulus - Procedure B Test Method I (chs 0.05 in/min)	D-790	psi MPa	1,100,000 7,590
TENSILE			
Tensile Yield Strength Type 1 bar, chs 2 in/min	D-638	psi MPa	16,500 114
THERMAL			
Heat Deflection Temperature 0.125" bar @ 1.8 MPa (264 psi) Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F °C	318 159
Heat Deflection Temperature 0.125" bar @ 0.45 MPa (66 psi) Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F °C	396 202
FLAMMABILITY			
Minimum Thickness 1.5 mm / 0.0625 in 3.0 mm / 0.1250 in	UL-94		5VA / V-0 5VA / V-0

EAP03-12-07

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