



DIAMOND POLYMERS, INC.

DIAMALLOY

800

Polycarbonate / Polyester
Alloy

PROPERTIES	ASTM METHOD	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Rate - Procedure A Condition 200°C/5.0 kg Condition 230°C/3.8 kg	D-1238	g/10 min	-- 10.5
Specific Gravity	D-792		1.24
Mold Shrinkage	D-955	in/in cm/cm	0.004 - 0.008 0.004 - 0.008
IMPACT			
Izod Impact, notched Test Method A (0.125" bar)	D-256	ft-lb/in J/m	-- No Break
FLEXURAL			
Flexural Modulus - Procedure B Test Method I (chs 0.05 in/min)	D-790	psi MPa	306,000 2,108
TENSILE			
Tensile Yield Strength Type 1 bar, chs 2 in/min	D-638	psi MPa	7,274 50.1
Elongation @ Yield Type 1 bar, chs 2 in/min	D-638	%	4.1
THERMAL			
Heat Deflection Temperature 0.125" bar @ 1.8 Mpa (264 psi) Unannealed/Conditioned 48 hours @ 23° C (73° F)	D-648	°F °C	135 57.4
Vicat Softening Point 0.125 bar / 10 N / Rate B	D-1527	°F °C	399 204
FLAMMABILITY RATING			
Minimum Thickness 1.5 mm / 0.0625 in 3.0 mm / 0.1250 in	UL 94		V-O V-O
UL File Number			

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