

Diamond Polymers DIAMALLOY 750 ABS/PC Alloy, Non-Halogen, Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-DIAMALLOY-750-ABSPC-Alloy-Non-Halogen-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	3.9 g/10 min	3.9 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	11.8 g/10 min	11.8 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	61.5 MPa	8920 psi	chs 2.0 in/min; ASTM D638
Elongation at Yield	4.5 %	4.5 %	chs 2.0 in/min; ASTM D638
Flexural Modulus	2.584 GPa	374.8 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	7.48 J/cm	14.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	113 °C	235 °F	ASTM D1527
	@Load 1.00 kg, Thickness 3.17 mm	@Load 2.20 lb, Thickness 0.125 in	
Flammability, UL94	V-0	V-0	
	@Thickness 1.59 mm	@Thickness 0.0625 in	
	V-0	V-0	
	@Thickness 3.17 mm	@Thickness 0.125 in	
	5VB	5VB	

Thermal Properties	@Thickness 20.1 mm Metric	@Thickness 0.790 in English	Comments
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