

Polymer Resources PC/ABS-FR1 Flame Retardant PC/ABS Alloy

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

Material Notes:

PC/ABS Alloy, Flame Retardant, Standard FlowProcess: Injection MoldingNotes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples.Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PCABS-FR1-Flame-Retardant-PCABS-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	25 - 50 g/10 min @Load 5.00 kg, Temperature 250 °C	25 - 50 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.5 MPa	8200 psi	ASTM D638
Tensile Strength, Yield	57.9 MPa	8400 psi	ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm @Temperature 22.8 °C	12.0 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	36.2 J	26.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.6 °C	195 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ASTM D648
UL RTI, Electrical	60.0 °C @Thickness 1.50 mm	140 °F @Thickness 0.0591 in	UL 746
	60.0 °C @Thickness 2.50 mm	140 °F @Thickness 0.0984 in	UL 746
	60.0 °C	140 °F	UL 746

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
UL RTI, Mechanical with Impact	60.0 °C	140 °F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	60.0 °C	140 °F	
	@Thickness 2.50 mm	@Thickness 0.0984 in	UL 746
	60.0 °C	140 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	60.0 °C	140 °F	
	@Thickness 2.50 mm	@Thickness 0.0984 in	UL 746
	60.0 °C	140 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0 - 5VA	V-0 - 5VA	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness 2.50 mm	@Thickness 0.0984 in	UL 746
	60 - 120 sec	60 - 120 sec	
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 2.50 mm	@Thickness 0.0984 in	UL 746
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	221 - 254 °C	430 - 490 °F	
Middle Barrel Temperature	232 - 266 °C	450 - 510 °F	
Front Barrel Temperature	243 - 277 °C	470 - 530 °F	
Melt Temperature	246 - 274 °C	475 - 525 °F	
Mold Temperature	48.9 - 82.2 °C	120 - 180 °F	
Drying Temperature	76.7 - 82.2 °C	170 - 180 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0015	

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