

Polymer Resources ABS-FR Flame Retardant ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Flame Retardant Acrylonitrile Butadiene Styrene Features: • Flame Retardant • Self Extinguishing Process: Injection Molding Notes: 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-ABS-FR-Flame-Retardant-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	4.0 - 16 g/10 min @Load 3.80 kg, Temperature 230 °C	4.0 - 16 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength at Break	37.9 MPa	5500 psi	ASTM D638
Tensile Strength, Yield	40.7 MPa	5900 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Elongation at Yield	2.2 %	2.2 %	ASTM D638
Tensile Modulus	2.28 GPa	330 ksi	ASTM D638
Flexural Strength	62.1 MPa	9000 psi	ASTM D790
Flexural Modulus	2.38 GPa	345 ksi	ASTM D790
Izod Impact, Notched	2.14 J/cm @Temperature 22.8 °C	4.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Izod Impact, Notched (ISO)	6.30 kJ/m² @Temperature -30.0 °C	3.00 ft-lb/in² @Temperature -22.0 °F	ISO 180/1A
	18.9 kJ/m² @Temperature 22.8 °C	9.00 ft-lb/in² @Temperature 73.0 °F	ISO 180/1A
Charpy Impact, Notched	1.89 J/cm²	9.00 ft-lb/in²	ISO 179/1eA

Mechanical Properties	@Temperature 22.8 °C Metric	@Temperature 73.0 °F English	Comments
Gardner Impact	16.9 J	12.5 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	87.8 °C	190 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648
Vicat Softening Point	90.6 °C	195 °F	120°C/h, 50 N; ASTM D1525
UL RTI, Electrical	60.0 °C	140 °F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	60.0 °C	140 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
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	UL 746
	@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	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	
	@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
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	171 - 182 °C	340 - 360 °F	
Middle Barrel Temperature	199 - 210 °C	390 - 410 °F	
Front Barrel Temperature	210 - 221 °C	410 - 430 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	48.9 - 71.1 °C	120 - 160 °F	
Drying Temperature	82.2 - 93.3 °C	180 - 200 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.001	

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