

Polymer Resources ABS-FR1 ABS, Flame Retardant

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

Material Notes:

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-FR1-ABS-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	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	4.0 - 16 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.5 MPa	5300 psi	ASTM D638
Tensile Strength, Yield	35.9 MPa	5200 psi	ASTM D638
Flexural Strength	58.6 MPa	8500 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	1.87 J/cm	3.50 ft-lb/in	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)	87.8 °C	190 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/16 in
	V-0	V-0	1/8 in

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	

Melt Temperature Processing Properties	204 - 232 °C Metric	400 - 450 °F 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 - 4 hour	2 - 4 hour	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China