

PTS Trilac® FR1 ABS- Flame Retardant ABS Resin (Unverified Data**)

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

Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-Trilac-FR1-ABS-Flame-Retardant-ABS-Resin-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	24 Hr.; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 3.80 kg, Temperature 230 °C	6.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	36.5 MPa @Thickness 3.17 mm	5300 psi @Thickness 0.125 in	ASTM D638
Tensile Modulus	2.17 GPa	315 ksi	ASTM D638
Flexural Strength	64.1 MPa @Thickness 3.17 mm	9300 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.24 GPa @Thickness 3.17 mm	325 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	1.49 J/cm @Thickness 3.17 mm	2.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	76.7 °C @Thickness 3.17 mm	170 °F @Thickness 0.125 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 °C	140 °F	
UL RTI, Mechanical with Impact	60.0 °C	140 °F	
UL RTI, Mechanical without Impact	60.0 °C	140 °F	
	V-0	V-0	

Thermal Properties	Metric	English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	
	5VA	5VA	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 °C	350 °F	
Middle Barrel Temperature	204 °C	400 °F	
Front Barrel Temperature	216 °C	420 °F	
Melt Temperature	232 - 249 °C	450 - 480 °F	
Mold Temperature	54.4 - 71.1 °C	130 - 160 °F	
Drying Temperature	87.8 - 93.3 °C	190 - 200 °F	
Dry Time	2 - 24 hour	2 - 24 hour	
Injection Pressure	55.2 - 82.7 MPa	8000 - 12000 psi	
Back Pressure	0.689 MPa	100 psi	
Screw Speed	50 - 60 rpm	50 - 60 rpm	

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