

PTS Trilac® FR3800 Flame Retardant ABS Resin, RoHS Compliant

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-FR3800-Flame-Retardant-ABS-Resin-RoHS-Compliant.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Melt Flow	8.0 g/10 min @Load 3.80 kg, Temperature 230 °C	8.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength	37.9 MPa @Thickness 3.17 mm	5500 psi @Thickness 0.125 in	ASTM D638
Flexural Strength	65.5 MPa @Thickness 3.17 mm	9500 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	1.44 J/cm @Thickness 6.35 mm	2.70 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.60 J/cm @Thickness 3.17 mm	3.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	83.3 °C	182 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.7 °C	170 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	UL file E155285
	V-0	V-0	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
	5VA	5VA	
	@Thickness 3.00 mm	@Thickness 0.118 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	204 - 216 °C	400 - 420 °F	
Nozzle Temperature	204 - 216 °C	400 - 420 °F	
Melt Temperature	193 - 232 °C	380 - 450 °F	
Mold Temperature	54.4 - 71.1 °C	130 - 160 °F	
Drying Temperature	87.8 °C	190 °F	max 6 hours
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	55.2 - 82.7 MPa	8000 - 12000 psi	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	50 - 80 %	50 - 80 %	
Vent Depth	0.00381 - 0.00762 cm	0.00150 - 0.00300 in	
Screw Speed	30 - 60 rpm	30 - 60 rpm	

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