

PTS Trilac® ABS-EX1000 High Impact Extrusion Grade ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

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-ABS-EX1000-High-Impact-Extrusion-Grade-ABS-Resin.php

Physical Properties	Metric	English	Comments
Melt Flow	7.0 g/10 min	7.0 g/10 min	
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	43.0 MPa	6240 psi	ASTM D638
Flexural Yield Strength	59.1 MPa	8570 psi	ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
Izod Impact, Notched	2.94 J/cm	5.51 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	3.58 J/cm	6.71 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 3.17 mm	@Thickness 0.125 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 Processing Properties	232 - 249 °C Metric	450 - 480 °F English	Nozzle temp not greater than stock Comments
Mold Temperature	54.4 - 71.1 °C	130 - 160 °F	
Drying Temperature	82.2 - 87.8 °C	180 - 190 °F	
Dry Time	2 - 4 hour	2 - 4 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	

Descriptive Properties	Value	Comments
Injection Fill Speed	Slow to Moderate	

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