

PTS Trilac® ABS-HS4000 General Purpose ABS Resin

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

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-HS4000-General-Purpose-ABS-Resin.php

Physical Properties	Metric	English	Comments
Melt Flow	4.0 g/10 min	4.0 g/10 min	
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Flexural Yield Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	2.59 GPa	376 ksi	ASTM D790
Izod Impact, Notched	2.14 J/cm	4.01 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 °C	380 °F	
Middle Barrel Temperature	216 °C	420 °F	
Front Barrel Temperature	227 °C	440 °F	
Melt Temperature	232 - 260 °C	450 - 500 °F	Nozzle temp not greater than stock
Mold Temperature	48.9 - 65.6 °C	120 - 150 °F	
Drying Temperature	87.8 - 93.3 °C	190 - 200 °F	
Dry Time	2 - 24 hour	2 - 24 hour	

Injection Pressure Processing Properties	68.9 - 82.7 MPa Metric	10000 - 12000 psi English	Comments
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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