

## PTS Trilac® ABS-HF5500 High Flow 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-HF5500-High-Flow-ABS-Resin.php](http://www.lookpolymers.com/polymer_PTS-Trilac-ABS-HF5500-High-Flow-ABS-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D792
Melt Flow	20 g/10 min	20 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	118	118	ASTM D785
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Flexural Yield Strength	70.3 MPa	10200 psi	ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	2.99 J/cm	5.60 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)	96.0 °C	205 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.50 - 2.90 mm	@Thickness 0.0591 - 0.114 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 °C	380 °F	
Middle Barrel Temperature	216 °C	420 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	218 - 260 °C	425 - 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	68.9 - 82.7 MPa	10000 - 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	

## Contact Songhan Plastic Technology Co.,Ltd.

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