

TPI Porene® ABS-AN450 Flame Retardant ABS Resin

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_TPI-Porene-ABS-AN450-Flame-Retardant-ABS-Resin.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Melt Flow	6.5 g/10 min	6.5 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	42.1 MPa	6110 psi	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Yield Strength	63.4 MPa	9200 psi	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	2.14 GPa	310 ksi	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched	1.28 J/cm	2.40 ft-lb/in	
	@Thickness 6.35 mm	@Thickness 0.250 in	
	1.82 J/cm	3.41 ft-lb/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	83.0 °C	181 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ASTM D648
Flammability, UL94	V-0	V-0	All colors at 1/8 in (3.2 mm)
	V-0	V-0	NC and WT
	@Thickness 1.60 mm	@Thickness 0.0630 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	Nozzle temp not greater than stock
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	

Descriptive Properties	Value	Comments
Injection Fill Speed	Slow to Moderate	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China