

PTS SAN-80HF High Flow SAN Resin

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), 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-SAN-80HF-High-Flow-SAN-Resin.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	25 g/10 min	25 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	122	122	ASTM D785
Tensile Strength, Yield	73.1 MPa	10600 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Yield Strength	117.2 MPa	17000 psi	ASTM D790
Flexural Modulus	3.32 GPa	482 ksi	ASTM D790
Izod Impact, Notched	0.210 J/cm	0.393 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)	89.0 °C	192 °F	ASTM D648
Vicat Softening Point	107 °C	225 °F	ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0625 in	
	HB	HB	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	191 - 210 °C	375 - 410 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	204 - 221 °C	400 - 430 °F	
Front Barrel Temperature	216 - 229 °C	420 - 445 °F	
Nozzle Temperature	204 - 229 °C	400 - 445 °F	
Mold Temperature	48.9 - 79.4 °C	120 - 175 °F	
Drying Temperature	71.1 - 79.4 °C	160 - 175 °F	
Dry Time	2 - 3 hour	2 - 3 hour	
Injection Pressure	68.3 - 137 MPa	9900 - 19800 psi	
Screw Speed	40 - 100 rpm	40 - 100 rpm	

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