

PTS SAN-82TR 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-82TR-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	40 g/10 min @Load 10.0 kg, Temperature 220 °C	40 g/10 min @Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength, Yield	64.1 MPa	9300 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Yield Strength	113.1 MPa	16400 psi	ASTM D790
Flexural Modulus	3.43 GPa	497 ksi	ASTM D790

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	191 - 210 °C	375 - 410 °F	
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	

Processing Properties	Metric	English	Comments
Screw Speed	40 - 100 rpm	40 - 100 rpm	

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