

Dow Tyril® 100 SAN

Category : Polymer , Thermoplastic , SAN Polymer

Material Notes:

Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-TyriI-100-SAN.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM Data
Melt Density	0.978 g/cc	0.0353 lb/in ³	Melt density
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	
Melt Flow	7.0 g/10 min @Load 3.80 kg, Temperature 230 °C	7.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	69.0 MPa	10000 psi	ASTM Data
Tensile Strength, Yield	69.0 MPa	10000 psi	ASTM Data
Elongation at Break	2.5 %	2.5 %	ASTM Data
Tensile Modulus	3.28 GPa	476 ksi	ASTM Data

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 µm/m-°C @Temperature 20.0 °C	33.3 µin/in-°F @Temperature 68.0 °F	ASTM data
Specific Heat Capacity	2.10 J/g-°C	0.502 BTU/lb-°F	
Thermal Conductivity	0.193 W/m-K	1.34 BTU-in/hr-ft ² -°F	
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	Unannealed; ASTM Data
	104 °C	219 °F	Annealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	Unannealed; 102°C (216°F) annealed; ASTM Data
Vicat Softening Point	110 °C	230 °F	
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Oxygen Index	19 %	19 %	

Optical Properties	Metric	English	Comments
Haze	0.65 %	0.65 %	
Transmission, Visible	88.5 %	88.5 %	

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