

Dow Tyril® 880 SAN

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), Molded

Material Notes:

TYRIL® 880 SAN copolymer offers excellent physical properties incorporating the highest levels of chemical resistance, heat resistance and overall strength of any TYRIL grade. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Tyril-880-SAN.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM Data
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	3.5 g/10 min @Load 3.80 kg, Temperature 230 °C	3.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	76.0 MPa	11000 psi	ASTM Data
Tensile Strength, Yield	76.0 MPa	11000 psi	ASTM Data
Elongation at Break	3.0 %	3.0 %	ASTM Data
Tensile Modulus	3.52 GPa	511 ksi	ASTM Data
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO Data, Low Temp
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO Data
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO Data, Low Temp
	0.200 J/cm ²	0.952 ft-lb/in ²	ISO Data

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	67.0 μm/m-°C @Temperature 20.0 °C	37.2 μin/in-°F @Temperature 68.0 °F	ASTM data
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	Unannealed; ASTM Data
Vicat Softening Point	111 °C	232 °F	
	HB	HB	

Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	Comments
Oxygen Index	18.5 %	18.5 %	

Optical Properties	Metric	English	Comments
Haze	0.65 %	0.65 %	
Transmission, Visible	91 %	91 %	

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