

Dow Tyril® 880B SAN

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

Material Notes:

TYRIL® 880B SAN copolymer combines the high levels of chemical resistance, heat resistance and overall strength of 880 resin with improved mold flow and mold release characteristics. Data provided by Dow Chemical.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM Data
Melt Density	1.00 g/cc	0.0361 lb/in ³	Melt density
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	3.45 GPa	500 ksi	ASTM Data
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO Data
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO Data, Low Temp
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO Data
	0.200 J/cm ²	0.952 ft-lb/in ²	ISO Data, Low Temp

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
Specific Heat Capacity	2.23 J/g-°C	0.533 BTU/lb-°F	
Thermal Conductivity	0.195 W/m-K	1.35 BTU-in/hr-ft ² -°F	
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	Unannealed; ASTM Data

Thermal Properties (264 psi) Tensile strength at 1.8 MPa	Metric	English	Comments @Thickness 0.0630 in; ASTM Data
Vicat Softening Point	111 °C	232 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Oxygen Index	18.5 %	18.5 %	

Optical Properties	Metric	English	Comments
Haze	0.45 %	0.45 %	
Transmission, Visible	86.5 %	86.5 %	

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