

Dow Tyril® 1000B SAN

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

Material Notes:

TYRIL® 1000B SAN copolymer offers the best balance of physical properties of all TYRIL grades. It also provides excellent processability and chemical resistance, superior heat resistance, and good practical toughness, besides superior clarity, improved mold release characteristics and minimal contaminates. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Tyrl-1000B-SAN.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in³	ASTM Data
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	8.0 g/10 min @Load 3.80 kg, Temperature 230 °C	8.0 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	3.31 GPa	480 ksi	ASTM Data
Charpy Impact Unnotched	1.00 J/cm²	4.76 ft-lb/in²	ISO Data
	1.00 J/cm²	4.76 ft-lb/in²	ISO Data, Low Temp
Charpy Impact, Notched	0.100 J/cm²	0.476 ft-lb/in²	ISO Data, Low Temp
	0.200 J/cm²	0.952 ft-lb/in²	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)	96.0 °C	205 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	Unannealed; ASTM Data
Vicat Softening Point	110 °C	230 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL 94	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	18.5 %	18.5 %	

Optical Properties	Metric	English	Comments
Haze	0.60 %	0.60 %	
Transmission, Visible	88.5 %	88.5 %	

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