

Dow Tyril® 990 SAN

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

Material Notes:

TYRIL® 990 SAN copolymer grade provides colorless glass-like clarity and excellent overall optical properties. It provides a profile of very good strength with stiffness, chemical resistance, heat resistance, and excellent processability. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Tyrl-990-SAN.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM Data
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	8.5 g/10 min @Load 3.80 kg, Temperature 230 °C	8.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	66.0 MPa	9570 psi	ASTM Data
Tensile Strength, Yield	66.0 MPa	9570 psi	ASTM Data
Elongation at Break	2.4 %	2.4 %	ASTM Data
Tensile Modulus	3.17 GPa	460 ksi	ASTM Data
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM Data
Charpy Impact Unnotched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO Data
	1.00 J/cm ²	4.76 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	60.0 µm/m-°C @Temperature 20.0 °C	33.3 µin/in-°F @Temperature 68.0 °F	ASTM data
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	Unannealed; ASTM Data
Vicat Softening Point	108 °C	226 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	18.5 %	18.5 %	

Optical Properties	Metric	English	Comments
Haze	0.80 %	0.80 %	
Transmission, Visible	89 %	89 %	

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