

Entec Hyril® SAN500 Styrene Acrylonitrile

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

Material Notes:

Available in North America Features: Copolymer Form: Pellets Information provided by Entec

Order this product through the following link:

http://www.lookpolymers.com/polymer_Entec-Hyrl-SAN500-Styrene-Acrylonitrile.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	ASTM D785
Tensile Strength, Yield	71.7 MPa	10400 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Yield Strength	123 MPa	17900 psi	ASTM D790
Flexural Modulus	3.87 GPa	561 ksi	ASTM D790
Izod Impact, Notched	0.160 J/cm	0.300 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 µm/m-°C	33.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	96.7 °C	206 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.6 °C	186 °F	Unannealed; ASTM D648
Vicat Softening Point	108 °C	227 °F	Rate B (120°C/h), Loading 1 (10 N); ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.60 %	0.60 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003

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