

Styrolution Luran® HD 20 SAN

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

Material Notes:

Luran HD 20 is an easy-flow grade of SAN especially designed for the medical market. It is suitable for moldings with very thin walls and / or adverse flow length to wall ratio. It features very good transparency and a light intrinsic color. Compliant with USP Class VI and ISO 10993-5. Excellent transparency, Good surface appearance, Good chemical resistance, Resistant to beta and gamma sterilization. Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Luran-HD-20-SAN.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 % @Temperature 23.0 Â°C	0.20 % @Temperature 73.4 Â°F	50% RH; ISO 62
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ISO 294-4
Melt Flow	22 g/10 min @Load 10.0 kg, Temperature 220 Â°C	22 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	83	83	
Ball Indentation Hardness	165 MPa	23900 psi	ISO 2039-1
Tensile Strength, Yield	72.0 MPa	10400 psi	ISO 527
Elongation at Yield	3.0 %	3.0 %	ISO 527
Tensile Modulus	3.70 GPa	537 ksi	ISO 527
Flexural Strength	120 MPa	17400 psi	ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/m ² @Temperature 23.0 Â°C	0.952 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180/A
	2.00 kJ/m ² @Temperature -30.0 Â°C	0.952 ft-lb/in ² @Temperature -22.0 Â°F	ISO 180/A
Charpy Impact Unnotched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179

Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments
	1.60 J/cmÂ²	7.61 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	0.200 J/cmÂ²	0.952 ft-lb/inÂ²	ISO 179
Tensile Creep Modulus, 1 hour	3500 MPa	508000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	2800 MPa	406000 psi	ISO 899

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ISO 11359
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÂ²- Â°F	DIN 52612-1
Deflection Temperature at 0.46 MPa (66 psi)	99.0 Â°C	210 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	86.0 Â°C	187 Â°F	ISO 75
Vicat Softening Point	106 Â°C @Load 5.10 kg	223 Â°F @Load 11.2 lb	50Â°C/h; ISO 306

Optical Properties	Metric	English	Comments
Refractive Index	1.569	1.569	Sodium D Line; ASTM D 542
Transmission, Visible	>= 89 % @Wavelength 550 nm	>= 89 % @Wavelength 550 nm	ASTM D 1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.0 @Frequency 100 Hz	3.0 @Frequency 100 Hz	IEC 60250
Dissipation Factor	0.0040 @Frequency 100 Hz	0.0040 @Frequency 100 Hz	IEC 60250
	0.0070 @Frequency 1.00e+6 Hz	0.0070 @Frequency 1.00e+6 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 Â°C	428 - 500 Â°F	ISO 294
Mold Temperature	50.0 Â°C	122 Â°F	ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294
Drying Temperature	80.0 Â°C @Time 7200 - 14400 sec	176 Â°F @Time 2.00 - 4.00 hour	

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