

Styrolution Luran® HH-120 Alpha-Methylstyrene Acrylonitrile

Category : Polymer , Thermoplastic , SAN Polymer

Material Notes:

Luran HH-120 is a grade of AMSAN with high heat resistance and improved mechanical strength. It is suitable for injection molding and extrusion applications and can be used as a modifier for high heat ABS and PVC. Outstanding heat resistance Very good mechanical strength Good surface appearance Excellent dimensional stability New SPF 50 UV stabilization available Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Luran-HH-120-Alpha-Methylstyrene-Acrylonitrile.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.30 % @Temperature 23.0 °C	0.30 % @Temperature 73.4 °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	7.0 g/10 min @Load 10.0 kg, Temperature 220 °C	7.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	
Ball Indentation Hardness	175 MPa	25400 psi	ISO 2039-1
Tensile Strength, Yield	79.0 MPa	11500 psi	ISO 527
Elongation at Yield	3.0 %	3.0 %	ISO 527
Tensile Modulus	3.90 GPa	566 ksi	ISO 527
Flexural Strength	135 MPa	19600 psi	ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/m ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
	2.00 kJ/m ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
Charpy Impact Unnotched	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Mechanical Properties	Metric ^{cmÂ²}	English ^{lb/inÂ²}	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179
Charpy Impact, Notched	0.200 J/cmÂ²	0.952 ft-lb/inÂ²	ISO 179

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)	110 Â°C	230 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	104 Â°C	219 Â°F	ISO 75
Vicat Softening Point	120 Â°C @Load 5.10 kg	248 Â°F @Load 11.2 lb	50Â°C/h; ISO 306

Optical Properties	Metric	English	Comments
Refractive Index	1.567	1.567	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	0.0050 @Frequency 100 Hz	0.0050 @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 - 270 Â°C	428 - 518 Â°F	ISO 294
Mold Temperature	60.0 Â°C	140 Â°F	ISO 294

Processing Properties	Metric	English	Comments
Injection Velocity	200 mm/sec	7.9 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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