

Styrolution Luran[®] S 776 S UV ASA

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Description: Injection molding grade with good toughness and strength. Uses include parts for garden equipment, parts for office chairs and antennas. Information provided by STYROLUTION, which is a joint venture between BASF and INEOS

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Luran-S-776-S-UV-ASA.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Water Absorption	1.65 %	1.65 %	Equilibrium; ISO 62
	0.45 % @Time 86400 sec	0.45 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	0.35 %	0.35 %	23 [°] C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	4.28 g/10 min	4.28 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 [°] C	@Load 22.0 lb, Temperature 428 [°] F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	70.0 MPa	10200 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength, Yield	47.0 MPa	6820 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	12 %	12 %	Nominal, 50 mm/min; ISO 527-1/-2
Elongation at Yield	3.3 %	3.3 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-1/-2
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Izod Impact, Notched	2.85 J/cm	5.34 ft-lb/in	ASTM D256
Charpy Impact Unnotched	15.0 J/cm ²	71.4 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	
	27.0 J/cm ²	128 ft-lb/in ²	

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	ISO 179/1eJ Comments
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	1200 MPa @Strain <=0.500 %	174000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 - 110 μm/m-°C	44.4 - 61.1 μin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² - °F	DIN 52612-1
Maximum Service Temperature, Air	80.0 °C	176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	101 °C	214 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	ISO 75-1/-2
Vicat Softening Point	92.0 °C	198 °F	VST/B/50; ISO 306
	104 °C	219 °F	VST/A/50; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60707
	@Diameter 4.00 mm	@Diameter 0.157 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	

Electrical Properties	Metric	English	IEC 60250 Comments
Dielectric Strength	35.0 kV/mm @Frequency 100 Hz	889 kV/in @Frequency 100 Hz	K20/P20; IEC 60243-1
Dissipation Factor	0.0090 @Frequency 100 Hz	0.0090 @Frequency 100 Hz	IEC 60250
	0.034 @Frequency 1.00e+6 Hz	0.034 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test Liquid A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 Â°C	464 - 536 Â°F	Injection
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Injection
Drying Temperature	80.0 Â°C	176 Â°F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	Pre-drying

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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