

Styrolution Luran[®] S 757 G ASA

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

Luran S 757 G is an easy flowing injection molding ASA grade with large flow path/wall thickness ratios. 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-757-G-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 %	ISO 62
Moisture Absorption at Equilibrium	0.35 %	0.35 %	23Â°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	ASTM Data; MD
Linear Mold Shrinkage, Flow	0.0045 cm/cm	0.0045 in/in	ISO Data
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO Data
Melt Flow	21 g/10 min	21 g/10 min	ASTM Test
	@Load 10.0 kg, Temperature 220 Â°C	@Load 22.0 lb, Temperature 428 Â°F	
	25 g/10 min	25 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 Â°C	@Load 22.0 lb, Temperature 428 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM Test
Tensile Strength, Yield	47.0 MPa	6820 psi	2 in/min; ASTM Test
	51.0 MPa	7400 psi	50mm/min; ISO 527
	19.0 MPa	2760 psi	ISO Data
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
	71.0 MPa	10300 psi	ISO Data
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
Elongation at Break	8.0 %	8.0 %	50mm/min, Nominal strain; ISO 527
	20 %	20 %	2 in/min; ASTM Test

Mechanical Properties	Metric	English	Comments
	3.3 %	3.3 %	2 in/min; ASTM Test
	2.1 %	2.1 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	4.3 %	4.3 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Modulus	2.40 GPa	348 ksi	1mm/min; ISO 527
	2.50 GPa	363 ksi	ASTM Test
Flexural Strength	66.0 MPa	9570 psi	ASTM Test
	75.0 MPa	10900 psi	ISO Data
Flexural Modulus	2.23 GPa	323 ksi	ASTM Test
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.17 J/cm	2.19 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Charpy Impact Unnotched	19.0 J/cm ²	90.4 ft-lb/in ²	ISO 179
	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179
	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	40.0 J	29.5 ft-lb	ASTM Test
Impact Test	39.0 J	28.8 ft-lb	Instrumented Dart Impact (Energy at Peak Force); ASTM Test
Tensile Creep Modulus, 1 hour	2200 MPa	319000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	1650 MPa	239000 psi	ISO 899

Thermal Properties	Metric	English	Comments
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CTE linear Parallel to Flow Thermal Properties	95.0 Åum/m-Å°C Metric	52.8 Åuin/in-Å°F English	ISO 11358 Comments
Deflection Temperature at 0.46 MPa (66 psi)	101 Å°C	214 Å°F	annealed; ASTM Test
	101 Å°C	214 Å°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	96.0 Å°C	205 Å°F	annealed; ASTM Test
	96.0 Å°C	205 Å°F	ISO 75
Vicat Softening Point	97.0 Å°C	207 Å°F	Rate "A" Loading 2 (50 degC/h 50N); ASTM Test
	97.0 Å°C	207 Å°F	(50 Å°C/h / 50N) - B/50; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 0.810 mm	@Thickness 0.0319 in	
Oxygen Index	19 %	19 %	ISO 4589-1/-2

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	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.010	0.010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.025	0.025	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 Å°C	482 Å°F	Injection molding

Processing Properties	Metric	English	Comments
Mold Temperature	95.0 Â°C	203 Â°F	Ejection temperature
Injection Velocity	200 mm/sec	7.87 in/sec	Injection molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	Yes	
NSF Std. 51	No	
NSF Std. 61	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	
	Light stabilized or stable to light	
	Release agent	
	U.V. stabilized or stable to weather	
UL.UL-C	Yes	
USP Class VI	No	

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