

Styrolution Luran[®] S 777 K ASA

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

Material Notes:

Luran S 777 K is an easy flowing injection molding ASA grade with good toughness and heat distorsion resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Luran-S-777-K-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 %	23 [°] 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	13 g/10 min	13 g/10 min	ASTM Test
	@Load 10.0 kg, Temperature 220 [°] C	@Load 22.0 lb, Temperature 428 [°] F	
	15 g/10 min	15 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 [°] C	@Load 22.0 lb, Temperature 428 [°] F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM Test
Tensile Strength, Yield	44.0 MPa	6380 psi	2 in/min; ASTM Test
	48.0 MPa	6960 psi	50mm/min; ISO 527
	79.0 MPa	11500 psi	ISO Data
Elongation at Break	9.0 %	9.0 %	50mm/min, Nominal strain; ISO 527
	25 %	25 %	2 in/min; ASTM Test
Elongation at Yield	3.3 %	3.3 %	50mm/min; ISO 527
	5.1 %	5.1 %	ISO Data
	@Temperature -40.0 [°] C	@Temperature -40.0 [°] F	
	@Temperature -40.0	@Temperature -40.0	

Mechanical Properties	°C Metric	°F English	Comments
Tensile Modulus	2.30 GPa	334 ksi	1mm/min; ISO 527
	2.30 GPa	334 ksi	ASTM Test
Flexural Strength	61.0 MPa	8850 psi	ASTM Test
	70.0 MPa	10200 psi	ISO Data
Flexural Modulus	2.30 GPa	334 ksi	ASTM Test
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.80 J/cm	3.37 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Charpy Impact Unnotched	25.0 J/cm ²	119 ft-lb/in ²	ISO 179
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179
	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	56.0 J	41.3 ft-lb	ASTM Test
Impact Test	51.0 J	37.6 ft-lb	Instrumented Dart Impact (Energy at Peak Force); ASTM Test
Tensile Creep Modulus, 1 hour	1850 MPa	268000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	1400 MPa	203000 psi	ISO 899

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 µm/m-°C	52.8 µin/in-°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	101 °C	214 °F	annealed; ASTM Test
	101 °C	214 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	97.0 °C	207 °F	annealed; ASTM Test
	97.0 °C	207 °F	ISO 75

Vicat Softening Point Thermal Properties	97.0 Â°C Metric	207 Â°F English	Rate "A" Loading 2 (50 degC/h 50N); ISO 1502
	97.0 Â°C	207 Â°F	(50 Â°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	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.7	3.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.011	0.011	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.024	0.024	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
Rear Barrel Temperature	240 - 280 Â°C	464 - 536 Â°F	Injection Molding
Middle Barrel Temperature	240 - 280 Â°C	464 - 536 Â°F	Injection Molding
Front Barrel Temperature	240 - 280 Â°C	464 - 536 Â°F	Injection Molding
Melt Temperature	250 Â°C	482 Â°F	Injection molding
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Injection Molding
Drying Temperature	80.0 Â°C	176 Â°F	Injection Molding

Dry Time Processing Properties	2 - 4 hour Metric	2 - 4 hour English	Injection Molding Comments
Descriptive Properties	Value		Comments
Color	Natural		
Commercial Status	North America and Europe		
Form	Pellets		
Impact Modified	Yes		
Injection Molding Regrind	<30%		
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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