

Styrolution Luran[®] S 797 SE ASA

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

Material Notes:

Luran S 797 SE is an extrusion ASA grade with especially high notched impact strength, used for sheet and profile extrusions. The data representable is based on extruded sheet. 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-797-SE-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
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM Test
	@Load 10.0 kg, Temperature 220 [°] C	@Load 22.0 lb, Temperature 428 [°] F	
	5.5 g/10 min	5.5 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	90	90	ASTM Test
Tensile Strength, Yield	40.0 MPa	5800 psi	2 in/min; ASTM Test
	13.0 MPa	1890 psi	ISO Data
	@Temperature 80.0 [°] C	@Temperature 176 [°] F	
	64.0 MPa	9280 psi	ISO Data
	@Temperature -40.0 [°] C	@Temperature -40.0 [°] F	
Elongation at Break	27 %	27 %	2 in/min; ASTM Test
Elongation at Yield	2.9 %	2.9 %	2 in/min; ASTM Test
	2.3 %	2.3 %	ISO Data
	@Temperature 80.0 [°] C	@Temperature 176 [°] F	
	4.7 %	4.7 %	

Mechanical Properties	Metric	English	Comments
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
Tensile Modulus	1.83 GPa	265 ksi	ASTM Test
Flexural Strength	57.0 MPa	8270 psi	ASTM Test
Flexural Modulus	1.56 GPa	226 ksi	ASTM Test
Izod Impact, Notched	0.570 J/cm	1.07 ft-lb/in	ASTM Test
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	2.80 J/cm	5.25 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 Âµm/m-Â°C	52.8 Âµin/in-Â°F	ISO 11359
	110 Âµm/m-Â°C	61.1 Âµin/in-Â°F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Â°C	180 Â°F	annealed; ASTM Test
Vicat Softening Point	90.0 Â°C	194 Â°F	Rate "A" Loading 2 (50 degC/h 50N); ASTM Test
Flammability, UL94	HB	HB	
	@Thickness 1.58 mm	@Thickness 0.0622 in	
	HB	HB	
	@Thickness 0.840 mm	@Thickness 0.0331 in	
Oxygen Index	19 %	19 %	ISO 4589-1/-2

Optical Properties	Metric	English	Comments
Gloss	91 %	91 %	60Â° Specular; ASTM Test

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	3.3	3.3	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	IEC 60243-1
Dissipation Factor	0.0090 @Frequency 100 Hz	0.0090 @Frequency 100 Hz	IEC 60250
	0.026 @Frequency 1.00e+6 Hz	0.026 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 Â°C	482 Â°F	Injection molding
Mold Temperature	60.0 Â°C	140 Â°F	Injection molding
Injection Velocity	200 mm/sec	7.87 in/sec	Injection molding
Drying Temperature	79.0 Â°C	174 Â°F	Injection Molding
Dry Time	2 - 4 hour	2 - 4 hour	Injection Molding

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	Extrusion	
Processing	Blow Molding	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
	Thermoforming	

Descriptive Properties	Value	Comments
	stabilized or stable to heat	
	Light stabilized or stable to light	
	U.V. stabilized or stable to weather	
UL.UL-C	Yes	
USP Class VI	No	

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