

Styrolution Luran[®] S 776 SE ASA

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

Material Notes:

Luran S 776 SE is a general purpose extrusion ASA grade with good toughness and strength, used for sheet and profile extrusions. 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-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	4.0 g/10 min	4.0 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 [°] C	@Load 22.0 lb, Temperature 428 [°] F	
	4.0 g/10 min	4.0 g/10 min	ASTM Test
	@Load 10.0 kg, Temperature 220 [°] C	@Load 22.0 lb, Temperature 428 [°] F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	89	89	ASTM Test
Tensile Strength, Yield	33.0 MPa	4790 psi	2 in/min; ASTM Test
	18.0 MPa @Temperature 80.0 [°] C	2610 psi @Temperature 176 [°] F	
Elongation at Break	49 %	49 %	2 in/min; ASTM Test
Elongation at Yield	2.7 %	2.7 %	2 in/min; ASTM Test
	1.9 % @Temperature 80.0 [°] C	1.9 % @Temperature 176 [°] F	
Tensile Modulus	1.65 GPa	239 ksi	ASTM Test
Flexural Strength	47.0 MPa	6820 psi	ASTM Test
Flexural Modulus	1.66 GPa	241 ksi	ASTM Test

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	ASTM Test
	2.60 J/cm	4.87 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 0.46 MPa (66 psi)	101 Â°C	214 Â°F	annealed; ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	83.0 Â°C	181 Â°F	annealed; ASTM Test
Vicat Softening Point	92.0 Â°C	198 Â°F	Rate "A" Loading 2 (50 degC/h 50N); ASTM Test
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0579 in	
	HB	HB	
	@Thickness 0.810 mm	@Thickness 0.0319 in	
Oxygen Index	19 %	19 %	ISO 4589-1/-2

Optical Properties	Metric	English	Comments
Gloss	48 %	48 %	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	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.0090	0.0090	IEC 60250

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
	0.034	0.034	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 270 Â°C	446 - 518 Â°F	Injection Molding
	280 Â°C	536 Â°F	Injection molding
Mold Temperature	60.0 Â°C	140 Â°F	Injection molding
	40.0 - 80.0 Â°C	104 - 176 Â°F	Injection Molding
Injection Velocity	200 mm/sec	7.87 in/sec	Injection molding
Drying Temperature	80.0 Â°C	176 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	
Special characteristic	Heat stabilized or stable to heat	

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

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