

Styrolution Luran® S 757 G Q43 White 36609 ASA

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Description: Particularly easy flowing injection molding grade for difficult moldings 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-Q43-White-36609-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 %	0.45 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	0.35 %	0.35 %	23 ^o C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	26.75 g/10 min	26.75 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 ^o C	@Load 22.0 lb, Temperature 428 ^o F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	90.0 MPa	13100 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength, Yield	51.0 MPa	7400 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	8.0 %	8.0 %	Nominal, 50 mm/min; ISO 527-1/-2
Elongation at Yield	3.3 %	3.3 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	2.40 GPa	348 ksi	ISO 527-1/-2
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Poissons Ratio	0.33	0.33	Calculated
Shear Modulus	0.900 GPa	131 ksi	ISO 6721-2
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	19.0 J/cm ² @Temperature -30.0 °C	90.4 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	1650 MPa @Strain <=0.500 %	239000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 - 110 Âµm/m-°C @Temperature 23.0 - 80.0 °C	44.4 - 61.1 Âµin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-1/-2
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² - °F	DIN 52612-1
Maximum Service Temperature, Air	85.0 °C	185 °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	97.0 °C	207 °F	VST/B/50; ISO 306
	105 °C	221 °F	VST/A/50; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10
	HB @Diameter 4.00 mm	HB @Diameter 0.157 in	IEC 60707

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
	3.2	3.2	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	3.4	3.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	K20/P20; 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	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	White 36609	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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