

Styrolution Luran[®] S 777 K UV Black 56625 ASA

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Description: Easy flowing injection molding grade with good toughness and heat distortion resistance. 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-777-K-UV-Black-56625-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 %	
	@Time 86400 sec	@Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	0.35 %	0.35 %	23 [°] C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	16.05 g/10 min	16.05 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 [°] C	@Load 22.0 lb, Temperature 428 [°] F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	80.0 MPa	11600 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength, Yield	48.0 MPa	6960 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	9.0 %	9.0 %	Nominal, 50 mm/min; ISO 527-1/-2
Elongation at Yield	3.3 %	3.3 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-1/-2
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D256
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	
	25.0 J/cm ²	119 ft-lb/in ²	

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	ISO 179/1eJ Comments
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	1400 MPa @Strain <=0.500 %	203000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 - 110 μm/m-°C	44.4 - 61.1 μin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
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)	97.0 °C	207 °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	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60707
	@Diameter 4.00 mm	@Diameter 0.157 in	

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	

Electrical Properties	Metric	English	IEC 60250 Comments
Dielectric Strength	35.0 kV/mm @Frequency 100 Hz	889 kV/in @Frequency 100 Hz	K20/P20; IEC 60243-1
Dissipation Factor	0.011 @Frequency 100 Hz	0.011 @Frequency 100 Hz	IEC 60250
	0.024 @Frequency 1.00e+6 Hz	0.024 @Frequency 1.00e+6 Hz	IEC 60250
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	Black 56625	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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