Technical Data

Product Description

Luran® S 777K is considered as the standard injection molding grade within the Luran S portfolio offering a well-balanced property profile.

FEATURES

- · Good flowability
- · Easy processing
- · New SPF 30 UV stabilization available

APPLICATIONS

- · Radiator grills
- · Gardening equipment
- · Household devices

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Material Status	Commercial: Active		
Literature ¹	Technical Datasheet (English)		
UL Yellow Card ²	• E108538-100840263		
Search for UL Yellow Card	 INEOS Styrolution Luran® S 		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Good Flow	 Good Processability 	
Uses	Household Goods	Lawn and Garden Equipment	
Forms	Pellets		
Processing Method	 Injection Molding 		
Multi-Point Data	 Creep Modulus vs. Time (ISO 11403) Isochronous Stress vs. Strain (ISO 11403) 	 Isothermal Stress vs. Strain (ISO 11403) Secant Modulus vs. Strain (ISC 11403) 	• Viscosity vs. Shear Rate (ISO 11403)

Physical	Nominal Value Unit	Test Method
Density	1.07 g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	15 cm³/10min	ISO 1133
Molding Shrinkage ⁴	0.40 to 0.70 %	
Water Absorption		ISO 62
Saturation, 23°C	1.7 %	
Equilibrium, 23°C, 50% RH	0.35 %	
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2300 MPa	ISO 527-1
Tensile Stress (Yield, 23°C)	48.0 MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.3 %	ISO 527-2
Nominal Tensile Strain at Break (23°C)	10 %	ISO 527-2
Tensile Creep Modulus (1000 hr)	1400 MPa	ISO 899-1
Flexural Stress (23°C)	70.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	4.0 kJ/m ²	
23°C	17 kJ/m²	

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Luran® S 777K

Acrylonitrile Styrene Acrylate INEOS Styrolution

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Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness	80.0 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load ⁵		
0.45 MPa, Annealed	101 °C	ISO 75-2/B
1.8 MPa, Annealed	97.0 °C	ISO 75-2/A
Vicat Softening Temperature		
	97.0 °C	ISO 306/B50
	105 °C	ISO 306/A50
CLTE - Flow	8.0E-5 to 1.1E-4 cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17 W/m/K	DIN 52612
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+14 ohms	IEC 62631-3-1
Volume Resistivity	1.0E+13 ohms cm	IEC 62631-3-1
Relative Permittivity		IEC 62631-2-1
100 Hz	3.70	
1 MHz	3.40	
Dissipation Factor		IEC 62631-2-1
100 Hz	0.011	
1 MHz	0.024	
Flammability	Nominal Value Unit	Test Method
Flammability Classification (1.5 mm)	HB	IEC 60695-11-10, -20
Injection	Nominal Value Unit	
Drying Temperature	80 °C	
Drying Time	2.0 to 4.0 hr	
Processing (Melt) Temp	240 to 280 °C	

Mold Temperature

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

40 to 80 °C

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ Free, longitudinal

⁵ 4 h/80 °C



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