



Luran[®] S 777K

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

Physical Properties

MEASUREMENT	CONDITION	Value
Density	ISO 1183	1.07 g/cm ³
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	ISO 1133	15 cm ³ /10min
Molding Shrinkage ³		0.40 to 0.70%
Water Absorption Saturation, 73°F Equilibrium, 73°F, 50% RH	ISO 62	1.7 % 0.35 %

Hardness Properties

MEASUREMENT	CONDITION	Value
Ball Indentation Hardness	ISO 2039-1	11600 psi

Mechanical Properties

MEASUREMENT	CONDITION	Value
Tensile Modulus	ISO 527-1	334000 psi
Tensile Stress (Yield, 73°F)	ISO 527-2	6960 psi
Tensile Strain (Yield, 73°F)	ISO 527-2	3.3 %
Nominal Tensile Strain at Break (73°F)	ISO 527-2	10 %
Tensile Creep Modulus (1000 hr)	ISO 899-1	203000 psi
Flexural Stress (73°F)	ISO 178	10200 psi

Features

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

Applications

- Radiator grills
- Gardening equipment
- Household devices

Processing Method

- Injection Molding

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Impact Properties

MEASUREMENT	CONDITION	Value
Charpy Notched Impact Strength	ISO 179/1eA	1.9 ft·lb/in ²
-22°F		8.1 ft·lb/in ²
73°F		

Thermal Properties

MEASUREMENT	CONDITION	Value
Deflection Temperature Under Load ⁴		
66 psi, Annealed	ISO 75-2/B	214°F
264 psi, Annealed	ISO 75-2/A	207°F
Vicat Softening Temperature	ISO 306/B50	207°F
--	ISO 306/A50	221°F
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CLTE - Flow	ISO 11359-2	4.4E-5 to 6.1E-5 in/in/°F
Thermal Conductivity	DIN 52612	1.2 Btu·in/hr/ft ² /°F

Electrical Properties

MEASUREMENT	CONDITION	Value
Surface Resistivity	IEC 62631-3-1	1.0E+14 ohms
Volume Resistivity	IEC 62631-3-1	1.0E+13 ohms·cm
Relative Permittivity		
100 Hz	IEC 62631-2-1	3.70
1 MHz		3.40
Dissipation Factor		
100 Hz	IEC 62631-2-1	0.011
1 MHz		0.024

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Flammability Properties

MEASUREMENT	CONDITION	Value
Flammability Classification (0.06 in)	IEC 60695-11-10, -20	HB

Injection Properties

MEASUREMENT	Value
Drying Temperature	176°F
Drying Time	2.0 to 4.0 hr
Processing (Melt) Temp	464 to 536°F
Mold Temperature	104 to 176°F

Notes

³Free, longitudinal

⁴4 h/80 °C

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