

Luran HH-120

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TECHNICAL DATASHEET

DESCRIPTION

Luran® HH-120 is a grade of AMSAN with high heat resistance and improved mechanical strength. It is suitable for injection molding and extrusion applications and can be used as a modifier for high heat ABS and PVC. For TDS and further information about the specialty piano black versions of Luran® HH-120 including INEOS Styrolution's latest SPF50 UV protection technology please contact the INEOS Styrolution Infopoint.

FEATURES

- Outstanding heat resistance
- Very good mechanical strength
- Good surface appearance
- Excellent dimensional stability
- New SPF 50 UV stabilization available

APPLICATIONS

- Automotive parts
- Polymer blend additive

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	7
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	2
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m ²	2
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	2
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m ²	20
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m ²	21
Tensile Stress at Yield, 23 °C	ISO 527	MPa	79
Tensile Strain at Break, 23 °C	ISO 527	%	3
Tensile Modulus	ISO 527	MPa	3900
Flexural Strength, 23 °C	ISO 178	MPa	135
Hardness, Ball Indentation	ISO 2039-1	MPa	175
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	120
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	104

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Property, Test Condition	Standard	Unit	Values
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	110
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	70
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
Electrical Properties			
Dielectric Constant (100 Hz)	IEC 62631-2-1	-	3
Dissipation Factor (100 Hz)	IEC 62631-2-1	10 ⁻⁴	50
Dissipation Factor (1 MHz)	IEC 62631-2-1	10 ⁻⁴	70
Volume Resistivity	IEC 62631-3-1	Ohm*m	10 ¹⁴
Surface Resistivity	IEC 62631-3-1	Ohm	>10 ¹⁵
Optical Properties			
Refractive Index, Sodium D Line	ISO 489	-	1.567
Other Properties			
Density	ISO 1183	kg/m ³	1080
Bulk Density (with external lubricant)	-	kg/m ³	600
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.3
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.3 - 0.7
Melt Temperature Range	ISO 294	°C	220 - 270
Mold Temperature Range	ISO 294	°C	40 - 80
Injection Velocity	ISO 294	mm/s	200
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4