

Luran® HH-120

Alphamethylstyrene Acrylonitrile

Styrolution

Message:

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 Styrolution's latest SPF50 UV protection technology please contact the Styrolution Infopoint.

General Information			
Features	Good Dimensional Stability		
	Good Strength		
	High Heat Resistance		
	Pleasing Surface Appearance		
Uses	Automotive Applications		
	Blending		
	Plastics Modification		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Apparent Density ¹	0.60	g/cm ³	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	7.00	cm ³ /10min	ISO 1133
Molding Shrinkage	0.30 to 0.70	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	84		
Ball Indentation Hardness	175	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	79.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Stress	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179

-30°C	21	kJ/m ²	
23°C	20	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	2.0	kJ/m ²	
23°C	2.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	110	°C	ISO 75-2/B
1.8 MPa, Annealed	104	°C	ISO 75-2/A
Vicat Softening Temperature	120	°C	ISO 306/B50
CLTE - Flow	7.0E-5	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+15	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Constant (100 Hz)	3.00		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	5.0E-3		
1 MHz	7.0E-3		
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.567		ISO 489
Transmittance (550 nm)	> 89.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 270	°C	
Mold Temperature	60.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	With external lubricant		

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