

# Luran® HH-120

Alphamethylstyrene Acrylonitrile

INEOS Styrolution

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product 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 Styrolution's latest SPF50 UV protection technology please contact the 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

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">INEOS Styrolution</a> • <a href="#">Luran®</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
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 (English)	Nominal Value (SI)	Test Method
Density	1.08 g/cm <sup>3</sup>	1.08 g/cm <sup>3</sup>	ISO 1183
Apparent (Bulk) Density <sup>3</sup>	0.60 g/cm <sup>3</sup>	0.60 g/cm <sup>3</sup>	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	7.0 cm <sup>3</sup> /10min	7.0 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage	0.30 to 0.70 %	0.30 to 0.70 %	ISO 294-4
Water Absorption Equilibrium, 73°F (23°C), 50% RH	0.30 %	0.30 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	566000 psi	3900 MPa	ISO 527-2
Tensile Stress (Yield, 73°F (23°C))	11500 psi	79.0 MPa	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	3.0 %	3.0 %	ISO 527-2
Flexural Stress (73°F (23°C))	19600 psi	135 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	0.95 ft·lb/in <sup>2</sup>	2.0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	10 ft·lb/in <sup>2</sup>	21 kJ/m <sup>2</sup>	
73°F (23°C)	9.5 ft·lb/in <sup>2</sup>	20 kJ/m <sup>2</sup>	
Notched Izod Impact Strength			ISO 180/A
-22°F (-30°C)	0.95 ft·lb/in <sup>2</sup>	2.0 kJ/m <sup>2</sup>	
73°F (23°C)	0.95 ft·lb/in <sup>2</sup>	2.0 kJ/m <sup>2</sup>	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	84	84	
Ball Indentation Hardness	25400 psi	175 MPa	ISO 2039-1



Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature <sup>4</sup>			
66 psi (0.45 MPa), Annealed	230 °F	110 °C	ISO 75-2/B
264 psi (1.8 MPa), Annealed	219 °F	104 °C	ISO 75-2/A
Vicat Softening Temperature	248 °F	120 °C	ISO 306/B50
CLTE - Flow	3.9E-5 in/in/°F	7.0E-5 cm/cm/°C	ISO 11359-2
Thermal Conductivity	1.2 Btu·in/hr/ft <sup>2</sup> /°F	0.17 W/m/K	DIN 52612

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 62631-3-1
Volume Resistivity	1.0E+16 ohms·cm	1.0E+16 ohms·cm	IEC 62631-3-1
Dielectric Constant (100 Hz)	3.00	3.00	IEC 62631-2-1
Dissipation Factor			IEC 62631-2-1
100 Hz	5.0E-3	5.0E-3	
1 MHz	7.0E-3	7.0E-3	

Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Refractive Index	1.567	1.567	ISO 489
Light Transmittance (550 nm)	> 89.0 %	> 89.0 %	ASTM D1003
Haze	< 1.00 %	< 1.00 %	ASTM D1003

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	428 to 518 °F	220 to 270 °C
Mold Temperature	104 to 176 °F	40 to 80 °C
Injection Velocity	472 in/min	12 m/min

**Notes**

- <sup>1</sup> 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.
- <sup>2</sup> Typical properties: these are not to be construed as specifications.
- <sup>3</sup> With external lubricant
- <sup>4</sup> 4h/80°C



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## Where to Buy

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### Supplier

**INEOS Styrolution**  
Frankfurt, Germany  
**Telephone:** +49 69 5095501200  
**Web:** <http://www.ineos-styrolution.com>

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### Distributor

#### **ALBIS Plastic**

*ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.*

**Telephone:** +49-40-78105-0

**Web:** <http://www.albis.com/>

**Availability:** Algeria, Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hong Kong, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom

#### **Amco Polymers**

**Telephone:** 800-262-6685

**Web:** <http://www.amcopolymers.com/>

**Availability:** North America

#### **Entec Polymers**

**Telephone:** 833-319-0299

**Web:** [https://www.entecpolymers.com/?utm\\_source=ul&utm\\_medium=paid%20association&utm\\_campaign=entec%20%7C%20entec%20%201&utm\\_term=ul%20%7C%20where%20to%20buy](https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%20%201&utm_term=ul%20%7C%20where%20to%20buy)

**Availability:** North America

#### **M. Holland Canada Company**

**Telephone:** 905-665-1168

**Web:** <http://www.mholland.com/>

**Availability:** Canada

#### **M. Holland Company**

**Telephone:** 855-497-1403

**Web:** <http://www.mholland.com/>

**Availability:** Mexico, United States

#### **Ultrapolymers**

*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*

**Telephone:** +32-11-57-95-57

**Web:** <http://www.ultrapolymers.com/>

**Availability:** Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Hungary, Ireland, Italy, Macedonia, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Turkey, Ukraine, United Kingdom

