

**Luran® HH-120**  
 SAN

INEOS Styrolution

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.

Rheological properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	7	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3900	MPa	ISO 527
Stress at Break	79	MPa	ISO 527
Strain at Break	3	%	ISO 527
Impact Strength (Charpy), +23°C	20	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	21	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	2	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load (1.80 MPa)	104	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	110	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	120	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	70	E-6/K	ISO 11359-1/-2

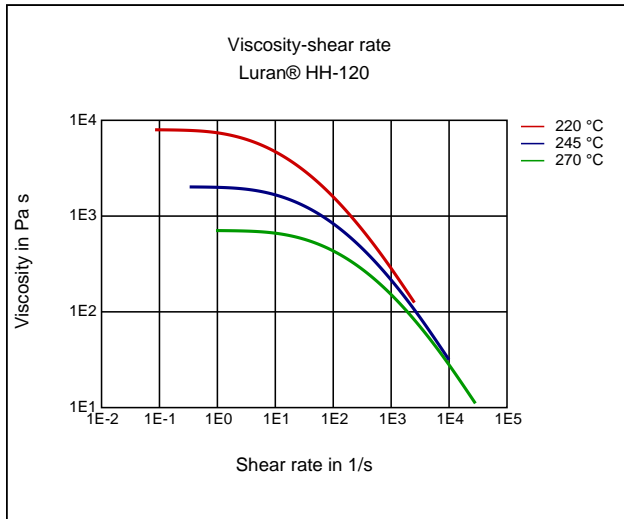
Other Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1080	kg/m³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Thermal Conductivity of Melt	0.17	W/(m K)	-

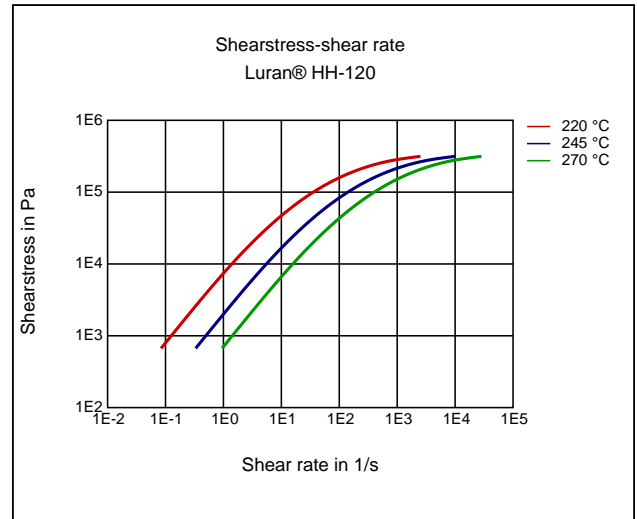
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	220 - 270	°C	-
Mold temperature	40 - 80	°C	-

**Diagrams**

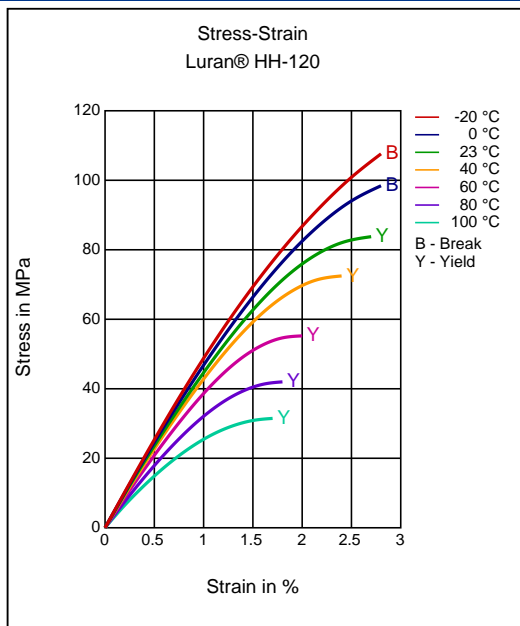
**Viscosity-shear rate**



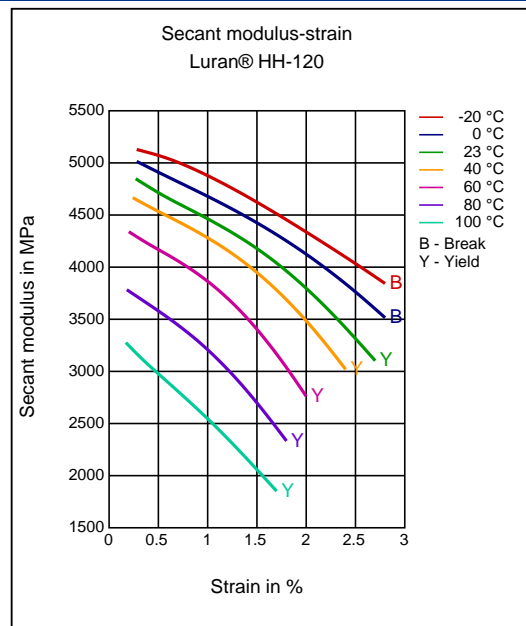
**Shearstress-shear rate**



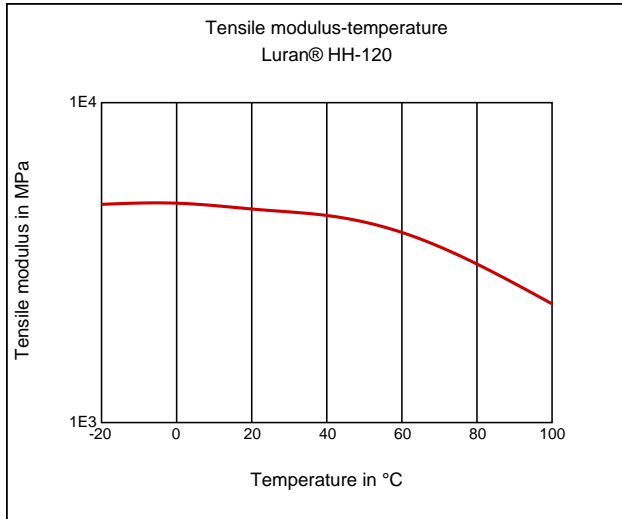
**Stress-strain**



**Secant modulus-strain**



### Tensile Modulus-Temperature



### Characteristics

#### Processing

Injection Molding, Profile Extrusion, Sheet Extrusion, Other Extrusion

#### Special Characteristics

Transparent

#### Delivery form

Pellets

### Injection Molding

#### PREPROCESSING

Pre-drying, Temperature: 80 °C

Pre-drying, Time: 2 - 4h

#### PROCESSING

Melt temperature, range: 220 - 270 °C

Mold temperature, range: 40 - 80 °C

### Other Extrusion

#### PREPROCESSING

Pre-drying, Temperature: 80 °C

Pre-drying, Time: 2 - 4h

#### PROCESSING

Prepreg, Melt temperature: 180 - 230 °C

Pipes, Melt temperature: 180 - 230 °C

### Profile extrusion

#### PREPROCESSING

Pre-drying, Temperature: 80 °C

Pre-drying, Time: 2 - 4h

#### PROCESSING

Profiles, Melt temperature: 230 °C

### Sheet Extrusion

#### PREPROCESSING

Pre-drying, Temperature: 80 °C

Pre-drying, Time: 2 - 4h

#### PROCESSING

Plates, Melt temperature: 180 - 230 °C

## Disclaimer

### Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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