

Luran® S KR2858G3

ASA-GF15

INEOS Styrolution

Luran® S KR2858G3 acrylonitrile styrene acrylate (ASA) polymer features high surface quality and good impact strength including enhanced colour fastness. The product delivers superior long-term performance when exposed to UV irradiation and additionally provide excellent chemical resistance. Luran® S KR2858G3 is a 15% glass fiber reinforced ASA grade offering enhanced heat resistance and superior rigidity.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	5	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6600	MPa	ISO 527
Stress at Break	110	MPa	ISO 527
Strain at Break	2.5	%	ISO 527
Impact Strength (Charpy), +23°C	28	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	7	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	5	kJ/m ²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	110	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	115	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	115	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	30	E-6/K	ISO 11359-1/-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	1.4	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1180	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	240 - 280	°C	-
Mold temperature	80 - 95	°C	-

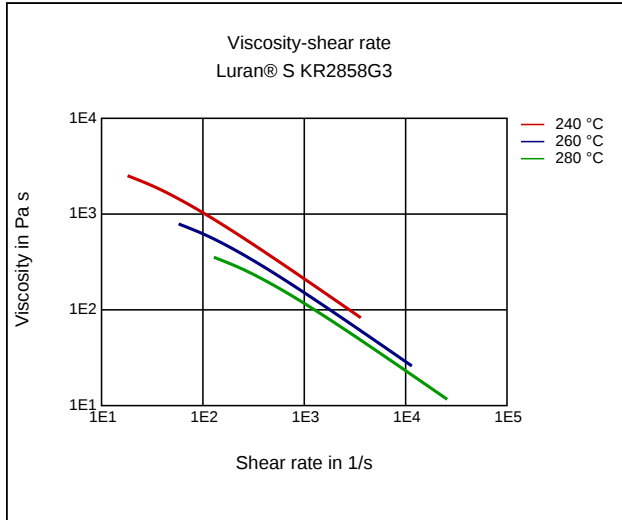
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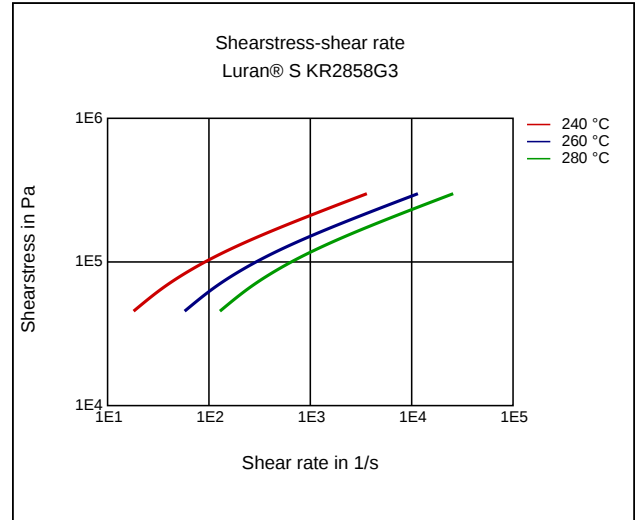
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Diagrams

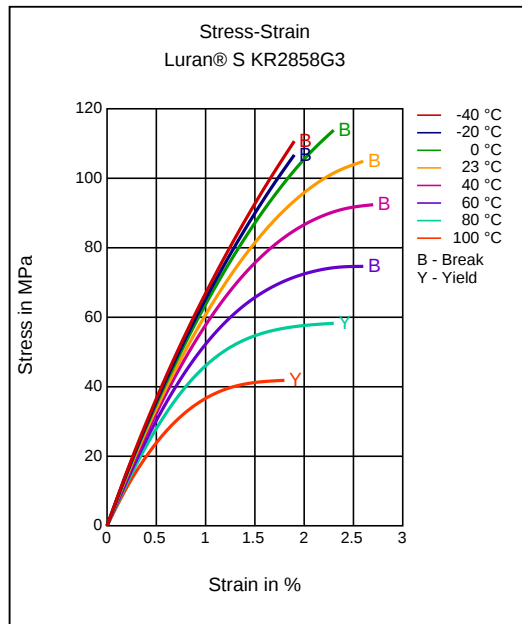
Viscosity-shear rate



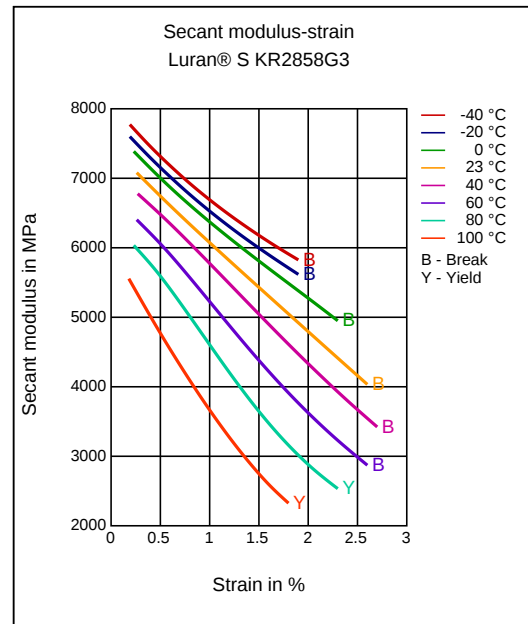
Shearstress-shear rate



Stress-strain



Secant modulus-strain

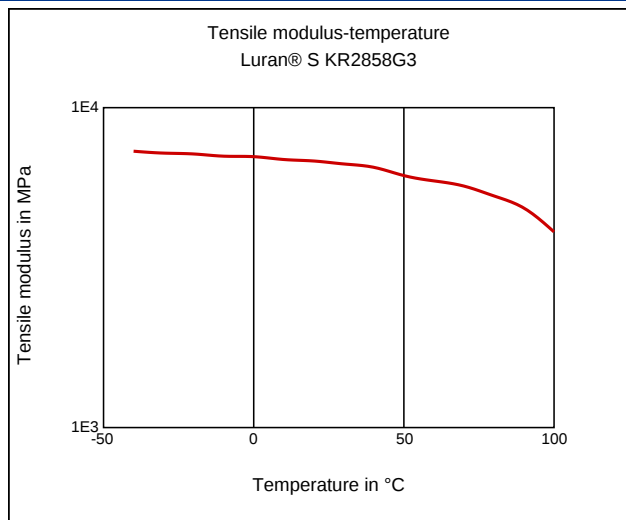


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Tensile Modulus-Temperature



Characteristics

Processing

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Light stabilized or stable to light, UV stablized, Heat aging stabilized

Injection Molding

PREPROCESSING

Pre-drying, Temperature: 80 °C

Pre-drying, Time: 2 - 4h

PROCESSING

Melt temperature, range: 240 - 280 °C

Mold temperature, range: 40 - 95 °C

Chemical Media Resistance

Acids

- ✓ Citric Acid solution (10% by mass) (23 °C)
- ✓ Lactic Acid (10% by mass) (23 °C)

Alcohols

- ✓ Isopropyl alcohol (23 °C)
- ✓ Methanol (23 °C)
- ✓ Ethanol (23 °C)

Hydrocarbons

- ✓ n-Hexane (23 °C)

Mineral oils

- ✓ SAE 10W40 multigrade motor oil (23 °C)

Salt solutions

- ✓ Sodium Chloride solution (10% by mass) (23 °C)
- ✓ Sodium Hypochlorite solution (10% by mass) (23 °C)

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Other

✓ Water (23°C)