INEOS Styrolution

ALBIS

Luran® S KR2866C

(ASA+PC) INEOS Styrolution

Luran® S KR2866C is a blend of ASA with PC, shows high heat and high impact resistance and long-term property retention. Its UV resistance is not only sufficient for all kind of interior applications – incl. unpainted surfaces in light colors – but also for exterior parts with medium weatherability requirements. Luran® S KR2866C is a very economic solution with low polycarbonate content and high UV and chemical resistance.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm³/10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2600	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	3.4	%	ISO 527
Nominal strain at break	15	%	ISO 527
Notched Impact Strength (Charpy), +23°C	40	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	9	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	102	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	113	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	110	°C	ISO 306
Burning Behav. at 1.5 mm Nom. Thickn.	HB	class	UL 94
Thickness tested	1.5	mm	-
UL recognition	yes	-	-

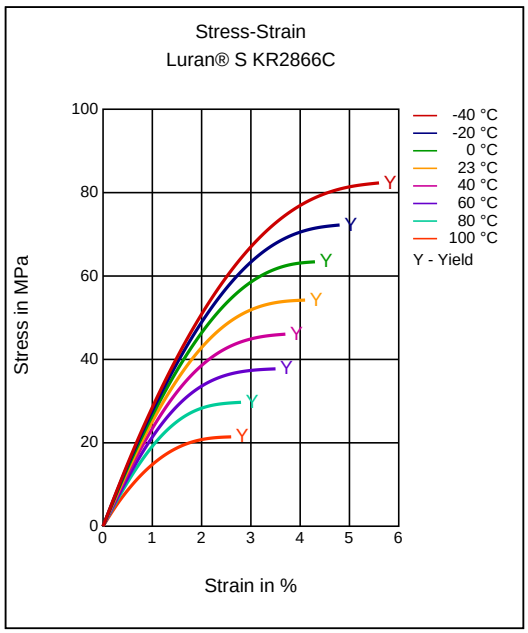
Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.9	%	Sim. to ISO 62
Humidity absorption	0.25	%	Sim. to ISO 62
Density	1110	kg/m³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Thermal Conductivity of Melt	0.19	W/(m K)	-

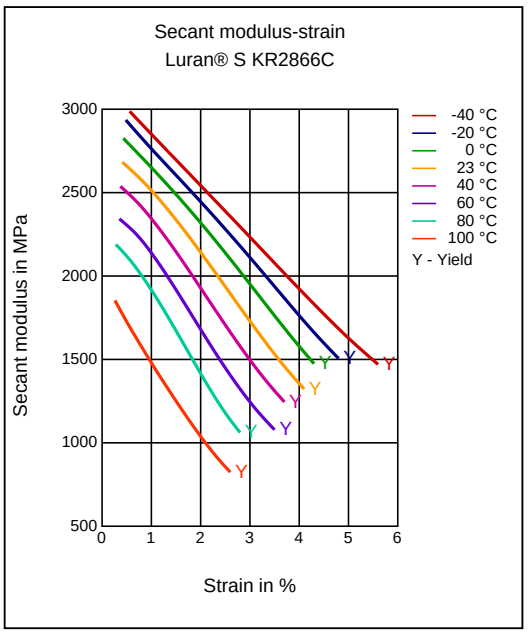
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	260 - 300	°C	-
Mold temperature	40 - 80	°C	-

Diagrams

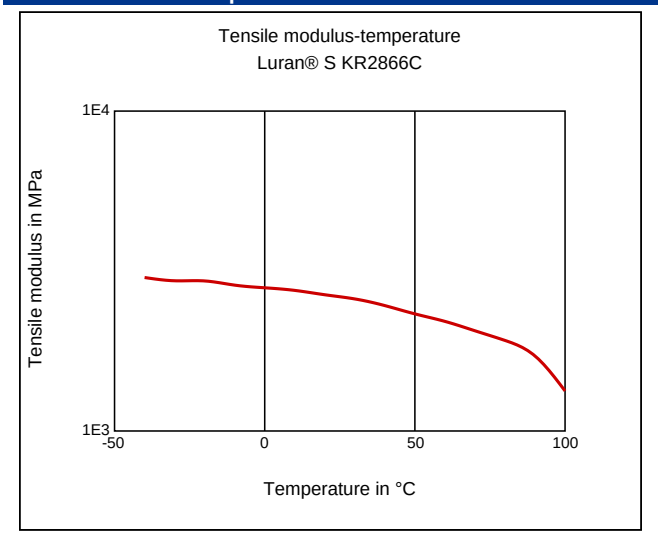
Stress-strain



Secant modulus-strain



Tensile Modulus-Temperature



Characteristics

Processing
Injection Molding

Additives
Release agent

Delivery form
Pellets

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

Injection Molding
PREPROCESSING

Pre-drying, Temperature: 100 °C

Pre-drying, Time: 2 - 4h

PROCESSING
Melt temperature, range: 260 - 300 °C
Mold temperature, range: 60 - 90 °C

Chemical Media Resistance

Acids

- ✔ Acetic Acid (5% by mass) (23 °C)
- ✔ Citric Acid solution (10% by mass) (23 °C)
- ✔ Lactic Acid (10% by mass) (23 °C)
- ✔ Nitric Acid (40% by mass) (23 °C)
- ✔ Sulfuric Acid (38% by mass) (23 °C)
- ✔ Sulfuric Acid (5% by mass) (23 °C)
- ✔ Chromic Acid solution (40% by mass) (23 °C)

Alcohols

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

Hydrocarbons

- ✔ n-Hexane (23 °C)
- ✔ iso-Octane (23 °C)

Mineral oils

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

Standard Fuels

- ✔ Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23 °C)
- ✔ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23 °C)
- ✔ Diesel fuel (pref. ISO 1817 Liquid F) (23 °C)

Salt solutions

- ✔ Sodium Chloride solution (10% by mass) (23 °C)
- ✔ Sodium Hypochlorite solution (10% by mass) (23 °C)
- ✔ Sodium Carbonate solution (20% by mass) (23 °C)
- ✔ Sodium Carbonate solution (2% by mass) (23 °C)
- ✔ Zinc Chloride solution (50% by mass) (23 °C)

Other

- ✔ Water (23 °C)
- ✔ Deionized water (90 °C)

Disclaimer

internal risk management policy – even for products which are in general designated for use in Healthcare applications.
Important: irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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