

Styrolution GmbH
Luran® S KR2867 C WU (ASA+PC)-Blend

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Easy flowing injection moulding grade containing bromine-, chlorine- and antimony-free flame retardant.

Typical values at 23°C

Test method

Unit

Values

1. Properties

Polymer abbreviation	-	-	(ASA+PC)-Blend
Density	ISO 1183	kg/m ³	1190
Melt volume-flow rate MVR 260 °C / 5kg	ISO 1133	cm ³ /10min	45
Water absorption, equilibrium in water at 23°C	similar to ISO 62	%	0.4
Water absorption, 24h at 23°C	ISO 62	%	0.4
Moisture absorption, equilibrium 23°C/50% r. h.	similar to ISO 62	%	0.15
Moulding shrinkage, free, longitudinal	-	%	0.3 – 0.7

2. Flammability

UL94 rating at 1.6mm thickness (E108538)	IEC 60695-11-10	class	V-0
Flammability by electrical sources of ignition, Meth. BH,d=4mm	IEC 60707	class	BH2
Automotive materials (thickness d≥1mm)	FMVSS 302	-	+
Glow-Wire Flammability (GWFI) (tested 1,0mm) (E108538)	IEC 60695-2-12	°C	960
Glow-Wire Ignition (GWIT) (tested 1,0mm) (E108538)	IEC 60695-2-13	°C	825

3. Mechanical properties

Tensile modulus	ISO 527-1/-2	MPa	2600
Yield stress (50 mm/min)	ISO 527-1/-2	MPa	61
Yield strain (50 mm/min)	ISO 527-1/-2	%	4
Nominal strain at break (50 mm/min)	ISO 527-1/-2	%	50
Flexural strength	ISO 178	MPa	90
Charpy unnotched impact strength (+ 23°C)	ISO 179/1eU	kJ/m ²	N
Charpy unnotched impact strength (- 30°C)	ISO 179/1eU	kJ/m ²	N
Charpy notched impact strength (+ 23°C)	ISO 179/1eA	kJ/m ²	16
Charpy notched impact strength (-30°C)	ISO 179/1eA	kJ/m ²	9
Izod notched impact strength, method A (+23°C)	ASTM D 256	J/m	150
Ball indentation hardness at 358 N/30 s	ISO 2039-1	MPa	120

4. Thermal properties

HDT A (1.80 MPa), measured using dried specimens	ISO 75-1/-2	°C	96
HDT B (0.45 MPa), measured using dried specimens	ISO 75-1/-2	°C	100
Vicat softening temperature VST/A/50	ISO 306	°C	110
Vicat softening temperature VST/B/50	ISO 306	°C	105
Max. service temperature (short cycle operation)	-	°C	90
Coefficient of linear therm. expansion, longitudinal (23-80)°C	ISO 11359-1/-2	E-6/K	65 - 85
Thermal conductivity	DIN 52612-1	W/(m·K)	0.19

5. Electrical properties

Relative permittivity at 100 Hz / at 1 MHz	IEC 60250	-	3.1 / 3
Dissipation factor at 100 Hz / at 1 MHz	IEC 60250	E-4	60 / 100
Volume resistivity	IEC 60093	Ohm · m	1E13
Surface resistivity	IEC 60093	Ohm	1E14
Comparative tracking index CTI, test liquid A	IEC 60112	-	250

The figures in this datasheet are guide values. The values are effected by processing conditions, modifications, additives and environmental conditions and they do not release you from the obligation to check the validity and to undertake tests on your own.

This information is based on our present knowledge and experience. The material data is not to be construed as guaranteeing specific properties and the data can not be used to deduce the suitability for a particular application.