

TECHNICAL DATA SHEET

LURANYL[®] KR 2450-3

ROMIRA

PPE/PS-I, injection moulding grade, impact modified, non-halogen flame retardant

PROPERTY	Test Method	Condition	Unit	Value*
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MECHANICAL.....

Tensile Modulus	DIN EN ISO 527	1 mm/min 23 °C	MPa	2,500
Tensile Strength	DIN EN ISO 527	50 mm/min 23 °C	MPa	60
Tensile Strain at Break	DIN EN ISO 527	50 mm/min 23 °C	%	6
Elongation at Break	DIN EN ISO 527	50 mm/min 23 °C	%	-
Flexural Modulus	DIN EN ISO 178	2 mm/min 23 °C	MPa	-
Flexural Strength	DIN EN ISO 178	2 mm/min 23 °C	MPa	105
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23 °C	kJ/m ²	13
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm -30 °C	kJ/m ²	6
Impact Strength (Charpy)	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23 °C	kJ/m ²	n.b.
Impact Strength (Charpy)	DIN EN ISO 179/1eU	80 x 10 x 4 mm -30 °C	kJ/m ²	n.b.

PHYSICAL.....

Density	DIN EN ISO 1183	23 °C, 50 % RH	g/cm ³	1.09
Water Absorption	DIN EN ISO 62	23 °C, 50 % RH, 24 h	%	< 0.15

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THERMAL.....

Heat deflection temperature (HDT/A)	DIN EN ISO 75-1	1,8 MPa	°C	98
Vicat Softening Temperature (B 50)	DIN EN ISO 306	50 N, 50 °C/h	°C	116
Melt Volume-Flow Rate (MVR)	DIN EN ISO 1133	250 °C, 21.6 kg	cm ³ /10 min	100
Thermal conductivity	DIN 52612	--	W/(K·m)	0.18
Thermal Coefficient of Linear Expansion	ISO 11359-2	23 °C - 80 °C	10 ⁻⁴ · K ⁻¹	0.6 - 0.7
Processing Shrinkage	DIN EN ISO 294-4	23 °C	%	0.5 - 0.7
Glow Wire Flammability Index (GWFI)	DIN EN 60695-2-12	2.0 mm	°C	960
Glow Wire Ignition Temperature (GWIT)	DIN EN 60695-2-13	2.0 mm	°C	875
Flammability (File No.: 148878 → UL listed)	UL94	0.75 mm	--	V-0