

TECHNICAL DATA SHEET

LURANYL[®] KR 2451-3

ROMIRA

PPE/PS-I, injection moulding grade, high heat resistance, 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	%	5
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	110
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23 °C	kJ/m ²	14
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm -30 °C	kJ/m ²	10
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	1.08
Water Absorption	DIN EN ISO 62	23 °C, 50 % RH, 24 h	%	< 0.15

THERMAL.....

Heat deflection temperature (HDT/A)	DIN EN ISO 75-1	1,8 MPa	°C	92
Vicat Softening Temperature (B 50)	DIN EN ISO 306	50 N, 50 °C/h	°C	110
Melt Volume-Flow Rate (MVR)	DIN EN ISO 1133	250 °C, 21.6 kg	cm ³ /10 min	138
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
Flammability (File No.: 148878 → UL listed)	UL94	1.5 mm	--	V-1