

# TECHNICAL DATA SHEET

## LURANYL<sup>®</sup> KR 2454-3 G2

# ROMIRA

PPE/PS-I, extrusion and injection moulding grade, 10% glass fibre reinforced, high heat resistance, non-halogen flame retardant

PROPERTY	Test Method	Condition	Unit	Value*
----------	-------------	-----------	------	--------

### MECHANICAL.....

Tensile Modulus	DIN EN ISO 527	1 mm/min 23 °C	MPa	4,500
Tensile Strength	DIN EN ISO 527	5 mm/min 23 °C	MPa	75
Elongation at Break	DIN EN ISO 527	5 mm/min 23 °C	%	4
Flexural Modulus	DIN EN ISO 178	2 mm/min 23 °C	MPa	-
Flexural Strength	DIN EN ISO 178	2 mm/min 23 °C	MPa	140
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23 °C	kJ/m <sup>2</sup>	10
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm -30 °C	kJ/m <sup>2</sup>	10
Impact Strength (Charpy)	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23 °C	kJ/m <sup>2</sup>	35
Impact Strength (Charpy)	DIN EN ISO 179/1eU	80 x 10 x 4 mm -30 °C	kJ/m <sup>2</sup>	35

### PHYSICAL.....

Density	DIN EN ISO 1183	23 °C, 50 % RH	g/cm <sup>3</sup>	1.16
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	133
Vicat Softening Temperature (B 50)	DIN EN ISO 306	50 N, 50 °C/h	°C	138
Melt Volume-Flow Rate (MVR)	DIN EN ISO 1133	250 °C, 21.6 kg	cm <sup>3</sup> /10 min	24
Thermal conductivity	DIN 52612	--	W/(K·m)	0.21
Thermal Coefficient of Linear Expansion	ISO 11359-2	23 °C - 80 °C	10 <sup>-4</sup> · K <sup>-1</sup>	0.4 - 0.5
Processing Shrinkage	DIN EN ISO 294-4	23 °C	%	0.4 - 0.5
Flammability (File No.: 148878 → UL listed)	UL94	1.5 mm	--	V-1