

Technical Data Sheet

LURANYL® KR 2452/3



ROMIRA
ENGINEERING POLYMERS

PPE+PS-I Blend with halogen free flame retardant; good heat resistance

<i>Properties</i>	<i>Unit</i>	<i>Test Method</i>	<i>Test Conditions</i>	<i>Value*</i>	<i>Remarks</i>
<i>Mechanical</i>					
Tensile Modulus	MPa	ISO 527	23°C 1mm/min	2,500	
Tensile Strength	MPa	ISO 527	23°C 50 mm/min	65	
Elongation at Yield	%	ISO 527	23°C 50 mm/min	6	
Flexural Strength	MPa	ISO 178	23°C 2 mm/min	115	
Shear Modulus	MPa	ISO 8721-2	60 x 10 x 1 mm	1,000	
Impact Strength Notched (Charpy)	kJ/m²	ISO 179/1eA	80 x 10 x 4 mm 23°C / -30°C	15 / 11	
Impact Strength (Charpy)	kJ/m²	ISO 179/1eU	80 x 10 x 4 mm 23°C / -30°C	n.b. / n.b.	
Ball Indentation Hardness H 358/30	MPa	ISO 2039-1	10 x 10 x 4 mm	140	
<i>Physical</i>					
Density	g/cm³	ISO 1183	23°C, 50% RH	1.07	
Water Absorption	%	ISO 62	23°C, 24 h	< 0.15	
<i>Thermal</i>					
Heat Distortion Temperature (HDT A)	°C	ISO 75	1.80 MPa	118	
Heat Distortion Temperature (HDT B)	°C	ISO 75	0.46 MPa	132	
Vicat Softening Temperature (B 50)	°C	ISO 306	50°C/h 50N	138	
Melt Volume Rate MVR	cm³/10 min	ISO 1133	250°C 21.6 kg	26	
Thermal Conductivity	W/(K·m)	DIN 52612	260x260x10 mm	0.18	
Linear Thermal Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	23°C - 80°C	0.6 – 0.7	
Moulding Shrinkage	%	ISO 294-4	23°C 3,2 mm	0.5 – 0.7	
Flammability	Class	UL 94	1.6 mm	V-1	UL listed

* = Average figures which could vary with each production batch due to addition of pigments, antistatic agents, slip agents, light stabilizers or other additives.

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