

Technical Data Sheet

LURANYL® KR 2451/3



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	60	
Elongation at Yield	%	ISO 527	23°C 50 mm/min	5	
Flexural Strength	MPa	ISO 178	23°C 2 mm/min	110	
Impact Strength Notched (Charpy)	kJ/m ²	ISO 179/1eA	80 x 10 x 4 mm 23°C / -30°C	14 / 10	
Impact Strength (Charpy)	kJ/m ²	ISO 179/1eU	80 x 10 x 4 mm 23°C / -30°C	n.b. / n.b.	
<i>Physical</i>					
Density	g/cm ³	ISO 1183	23°C, 50% RH	1.08	
Water Absorption	%	ISO 62	23°C, 24 h	< 0.15	
<i>Thermal</i>					
Heat Distortion Temperature (HDT A)	°C	ISO 75	1.80 MPa	92	
Vicat Softening Temperature (B 50)	°C	ISO 306	50°C/h 50N	110	
Melt Volume Rate MVR	cm ³ /10 min	ISO 1133	250°C 21.6 kg	138	
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.

ROMIRA GMBH