

Technical Data Sheet



Luranyl® KR 2451-3

PPE/PS-I-Blend, halogen-free flame retardant, high heat resistance

<i>Properties</i>	<i>Unit</i>	<i>Test Method</i>	<i>Test Condition</i>	<i>Value*</i>
<i>Mechanical</i>				
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2,500
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	60
Elongation at Yield	%	DIN EN ISO 527	23°C 50 mm/min	5
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	110
Ball Indentation Hardness H 358/30	MPa	DIN EN ISO 2039-1	80 x 10 x 4 mm	130
Notched Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C / -30°C	14 / 10
Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23°C / -30°C	n.b. / n.b.
<i>Physical</i>				
Density	g/cm ³	DIN EN ISO 1183	23°C, 50% RH	1.08
Water Absorption	%	DIN EN ISO 62	23°C, 24 h	< 0.15
<i>Thermal</i>				
Heat Distortion Temperature A	°C	DIN EN ISO 75/1	1.8 MPa	92
Vicat Softening Temperature B 50	°C	DIN EN ISO 306	50 N 50°C/h	110
Melt Volume Flow Rate (MVR)	cm ³ /10 min	DIN EN ISO 1133	250°C, 21.6 kg	138
Thermal Conductivity	W/(K·m)	DIN 52612	--	0.18
Thermal Coefficient of Linear Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	23°C - 80°C	0.6 - 0.7
Processing Shrinkage	%	DIN EN ISO 294-4	23°C 3.2 mm	0.5 - 0.7
Flammability (File No.: 148878 → UL listed)	--	UL94	1.5 mm	V-1
Limiting Oxygen Index (LOI)	%	DIN EN ISO 4589	--	30

* = These are average figures, which could vary in each production batch due to addition of pigments, antistatica, slip, uv stabilizer or other.

ROMIRA GMBH