

# Technical Data Sheet



## Luranyl® KR 2450-3

*PPE/PS-I-Blend, impact modified, halogen-free flame retardant*

<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	6
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	105
Notched Impact Strength (Charpy)	kJ/m <sup>2</sup>	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C / -30°C	13 / 6
Impact Strength (Charpy)	kJ/m <sup>2</sup>	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 <sup>3</sup>	DIN EN ISO 1183	23°C, 50% RH	1.09
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	98
Vicat Softening Temperature B 50	°C	DIN EN ISO 306	50 N 50°C/h	116
Melt Volume Flow Rate (MVR)	cm <sup>3</sup> /10 min	DIN EN ISO 1133	250°C, 21.6 kg	100
Thermal Conductivity	W/(K·m)	DIN 52612	--	0.18
Thermal Coefficient of Linear Expansion	10 <sup>-4</sup> · K <sup>-1</sup>	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	0.75 mm	V-0

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

**ROMIRA GMBH**