



DIAMOND POLYMERS, INC.

PPE / HIPS BLEND
 HALOGEN FREE FLAME RETARDANT
 IMPACT MODIFIED

LURANYL[®]
KR 2450/3

PROPERTIES	METHOD	UNITS METRIC ENGLISH	
PHYSICAL			
Melt Index (MVR) 250° C/21.6 kg	ISO 1133	cm ³ /10 min	100
Density, 23°C, 50% RH	ISO /R 1183	g/ml	1.09
Shrinkage	DIN 16901	%	0.50 - 0.70
IMPACT			
Notched Izod Impact (Charpy) 80 x10 x 4 mm bar, 23° C	ISO 179 1eA	kJ/m ² lbf/inch ²	13 6.2
Impact Strength (Charpy) 80 x10 x 4 mm bar, 23° C	ISO 179 1eU	kJ/m ² lbf/inch ²	N.B.
FLEXURAL			
Flexural Strength, chs 0.05 in/min, 0.125" bar	DIN & ISO 178	MPa psi	105 15,239
TENSILE			
Tensile Yield Strength	DIN & ISO 527	MPa psi	60 8,708
Elongation at Yield	DIN & ISO 527	%	6.0
Tensile Modulus	DIN & ISO 527	MPa psi	2,500 362,845
THERMAL			
Heat Deflection Temperature, 1.80 MPa	DIN & ISO 75	°C/°F	98 / 208
Vicat Softening Point, B 50 50°C/h, 5 kg	DIN & ISO 306	°C/°F	116 / 241
Thermal Conductivity	DIN 52612	W(m·k)	0.18
Thermal Coefficient of Linear Expansion	ISO 11359-2	10 ⁻⁴ ·K ⁻¹	0.60 - 0.70
Flammability, UL File No. 148878	UL94		V-0