



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

The information contained herein is provided for general reference purposes only. Diamond Polymers Inc. makes no guarantee or warranty and does not assume liability with respect to the accuracy or completeness of the information presented, or the product results in any specific instance and hereby expressly disclaims any implied warranties of suitability or fitness for a particular purpose or any other warranties or representations whatsoever expressed or implied. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of patent.

EAP/11-22-05