

## Solvay Specialty Polymers Kadel® E-1130 Polyketone (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyketone

### Material Notes:

High performance proprietary semi-crystalline polymer based resins with exceptional solvent resistance and high temperature performance. They provide strength and stiffness, plus superior chemical resistance for application in hostile environments. This product line was acquired by Solvay Advanced Polymers from BP Amoco in November 2001.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Kadel-E-1130-Polyketone-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Kadel-E-1130-Polyketone-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.070 %	0.070 %	in 24 hours per ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	163 MPa	23600 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Tensile Modulus	9.72 GPa	1410 ksi	ASTM D638
Flexural Yield Strength	235 MPa	34100 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256
Tensile Impact Strength	140 kJ/m <sup>2</sup>	66.6 ft-lb/in <sup>2</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 µm/m-°C	10.6 µin/in-°F	ASTM E381
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	326 °C	619 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	$1.60 \times 10^{18}$ ohm-cm Metric	$1.60 \times 10^{18}$ ohm-cm English	ASTM D257 Comments
Dielectric Constant	3.7 @Frequency 1000 Hz	3.7 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	15.0 kV/mm @Thickness 0.320 mm	381 kV/in @Thickness 0.0126 in	ASTM D149

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