

For more information and technical assistance contact:

Chevron Phillips Chemical Company LP
P.O. Box 4910
The Woodlands, TX 77387-4910
877.798.6666



Xtel[®] XE5030

Polyphenylene Sulfide Alloys

Xtel[®] XE5030 is a high performance, glass fiber reinforced, PPS based alloy developed to provide high ductility and impact strength along with good thermal stability.

Nominal Engineering Properties ⁽¹⁾	XE5030NA	XE5030BL	Test Method
Tensile Strength, MPa	140	130	ISO 527
Elongation, %	2.0	2.0	ISO 527
Flexural Strength, MPa	210	195	ISO 178
Flexural Modulus, GPa	9.0	9.0	ISO 178
Notched Izod Impact, kJ/m ²	10.0	9.5	ISO 180/A
Unnotched Izod Impact, kJ/m ²	45	45	ISO 180/U
Compressive Strength, MPa	210	210	ASTM D695
Tensile Strength, kpsi	18.0	18.0	ASTM D638
Elongation, %	1.8	1.8	ASTM D638
Flexural Strength, kpsi	30.0	28.0	ASTM D790
Flexural Modulus, Mpsi	1.3	1.3	ASTM D790
Notched Izod Impact, ft-lb/in, 1/8 in specimen	2.1	1.9	ASTM D256
Unnotched Izod Impact, ft-lb/in, 1/8 in specimen	16	13	ASTM D256
Compressive Strength, kpsi	30.0	30.0	ASTM D695
Heat Deflection Temperature, 264 psi (1.8 MPa), °C	250	250	ASTM D648
Heat Deflection Temperature, 264 psi (1.8 MPa), °F	485	485	ASTM D648
UL Temperature Index, °C	130	130	UL 746B
Coefficient of Linear Thermal Exp., X 10 ⁻⁶ in/in/°C			ASTM E831
Axial Direction, -50°C to 50°C	20	20	
Axial Direction, 100°C to 200°C	10	10	
Transverse Direction, -50°C to 50°C	60	60	
Transverse Direction, 100°C to 200°C	100	100	
Flammability Rating	V-0 at 3.0 mm	V-0 at 1.5 mm	UL 94
Thermal Conductivity, W/m-K	0.27	0.27	
Thermal Conductivity, BTU-in/hr-ft ² ·°F	1.8	1.8	
Dielectric Strength, V/mil	550	550	ASTM D149

MSDS #100000000252

Revision Date December 2010

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Dielectric Strength, kV/mm	22	22	ASTM D149
Dielectric Constant, 1 kHz, 25°C (78°F)	3.7	3.7	ASTM D150
Dielectric Constant, 1 MHz, 25°C (78°F)	3.6	3.6	ASTM D150
Dissipation Factor, 1 kHz, 25°C (78°F)	0.003	0.003	ASTM D150
Dissipation Factor, 1 MHz, 25°C (78°F)	0.009	0.009	ASTM D150
Volume Resistivity, ohm-cm	1×10^{15}	1×10^{15}	ASTM D257
Arc Resistance, sec	120	120	ASTM D495
Comparative Tracking Index, V	100	100	UL 746A
Insulation Resistance, ohm (90°C, 95% RH, 48 hr)	1×10^{11}	1×10^{11}	
Mold Shrinkage ⁽²⁾ in/in, Flow/Transverse	0.002 / 0.005	0.002 / 0.005	
Density, g/cc	1.51	1.51	ASTM D792
Water Absorption, % (23°C, 24 hr)	0.05	0.05	ASTM D570
Color	Natural	Black	

(1) Test specimen molding conditions: Stock Temperature, 600-650°F (315-345°C); Mold Temperature, 275°F (135°C)

(2) Measured on 102 mm X 102 mm X 3.2 mm Plaques, Edge Gated

The nominal properties reported herein are typical of the product but do not reflect normal testing variances and therefore should not be used for specification purposes.

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