

Xtel® XE5030NA

PPS-GF

Chevron Phillips Chemical Co. LP

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
Thermal conductivity of melt	0.18	W/(m K)	-
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.005	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Strength	145	MPa	ISO 527
Flexural modulus, 23°C	9000	MPa	ISO 178
Izod impact strength, +23°C	45	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Strength	124	MPa	ASTM D 638
Compressive Strength	207	MPa	ASTM D 695
Flexural Modulus	8963	MPa	ASTM D 790
Flexural Strength	207	MPa	ASTM D 790
Izod Impact notched, 1/8 in	112	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	854	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	250	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	20	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	3.05	mm	-
DTUL @ 264 psi	252	°C	ASTM D 648
Electrical properties			
ISO Data			
Comparative tracking index	100	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	19.7	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.009	-	ASTM D 150
Dielectric Constant, 1 MHz	3.6	-	ASTM D 150
Volume Resistivity	1E15	Ohm*cm	ASTM D 257
Arc Resistance	120	s	ASTM D 495
Other properties			
Density	1510	kg/m ³	ISO 1183
Water Absorption, 24hr	0.05	%	ASTM D 570
Density	1510	kg/m ³	ASTM D 792

Characteristics**Delivery form**

Pellets, Natural Color

Features

Low Odor

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa