



October, 2016

FZ-1130-D5

Product Summary: FZ-1130-D5 is a glass fiber 30% reinforced branched PPS compound with reduced flash and improved flexibility compared to conventional grades of PPS.

Color: Black and Natural (Brown)

Engineering Properties of FZ-1130-D5			
Properties	Test Method	Unit	FZ-1130-D5
General Information			GF30% Low flash
Physical			
Density Water absorption, 23°C /24hrs. Mold shrinkage ^a Mechanical	ISO 1183 ISO 62 ISO 294-4	g/cm³ % %	1.59 0.02 0.3/0.8
	100 507 4 0		400
Tensile strength Tensile modulus Tensile strain at break Flexural strength Flexural modulus Flexural strain at break Charpy impact strength, notched unnotched Co-eff. of friction ^b , static/dynamic Thermal Heat deflection temperature, 1.80MPa Co-eff. of linear thermal expansion ^a , -50~50 °C	ISO 527-1,2 ISO 527-1,2 ISO 527-1,2 ISO 178 ISO 178 ISO 178 ISO 179/1eA ISO 179/1eU - ISO 75-1,2 ISO 11359-2	MPa GPa % MPa GPa % kJ/m ² kJ/m ² - c x 10 ⁻⁵ /K	180 13.5 1.7 265 12.0 2.3 9 40 0.35/0.35 265 1.5/4.5
Co-eff. of linear thermal expansion ^a , 100~200 °C Flammability ^c /thickness (mm)	ISO 11359-2 UL-94	x 10 ⁻⁵ /K -	1.5/12.5 V-0/0.75
Electrical			
Dielectric strength, t=1.0mm Dielectric constant, 1MHz Dissipation factor, 1MHz Comparative Tracking Index (CTI) Volume resistivity	IEC 60243-1 IEC 60250 IEC 60250 IEC 60112 IEC 60093	kV/mm - - V Ω∙cm	25 4 0.004 175 10 ¹⁶
Molding Condition			
Cylinder temperature Mold temperature a: Flow direction/Transverse direction	-	С° С	300-340 130-150

a: Flow direction/I ransverse direction

b: P=150kPa, V=0.3m/s, PPS vs. carbon steel

c: UL file No. E53829

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