



October, 2016

FZ-6600-R1

Product Summary: FZ-6600-R1 is a glass fiber and mineral filled linear PPS compound with excellent strength, exceptional knit line strength and toughness.

■ Color: Black & Natural

Engineering Properties of FZ-6600-R1

Properties	Test Method	Unit	FZ-6600-R1
General Information			GF/Filler High strength
Physical			
Density Water absorption, 23°C/24Hrs. Mold shrinkage ^a	ISO 1183 ISO 62 ISO 294-4	g/cm³ % %	1.96 0.01 0.3/0.6
Mechanical			
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	ISO 527-1,2 ISO 527-1,2 ISO 527-1,2 ISO 178 ISO 178 ISO 178 ISO 179/1eA ISO 179/1eU	MPa GPa % MPa GPa % kJ/m² kJ/m²	180 22.0 1.2 270 21.0 1.5 10 31 0.35/0.35
Thermal			
Heat deflection temperature, 1.80MPa Co-eff. of linear thermal expansion ^a , -50~50 °C Co-eff. of linear thermal expansion ^a , 100~200 °C Flammability ^c /thickness (mm)	ISO 75-1,2 ISO 11359-2 ISO 11359-2 UL-94	°C x 10 ⁻⁵ /K x 10 ⁻⁵ /K -	275 1.5/2.5 1.5/7.0 V-0/0.73
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	22 5 0.002 200 10 ¹⁶
Molding Condition			
Cylinder temperature Mold temperature	-	°C °C	300-340 130-150

a: Flow direction/Transverse direction

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

c: UL file No. E53829