

# FZ-6600-R1

- **Outline:** FZ-6600-R1 is a GF/Mineral filled PPS compound which provides excellent weld strength and toughness.
- **Color:** Black

## Properties of FZ-6600-R1

Properties	Test Method	Unit	FZ-6600-R1
General Information			GF/Mineral High weld strength
<b>Physical</b>			
Specific gravity	ISO 1183A	-	1.95
Water absorption, 23deg. /24Hrs. /in water	ISO 62	Wt. %	0.02
Mold shrinkage, MD /TD <sup>a</sup>	ISO 294-4	%	0.3 / 0.6
<b>Mechanical</b>			
Tensile strength	ISO 527	MPa	165
Tensile modulus	ISO 527	GPa	21.0
Tensile elongation at break	ISO 527	%	1.0
Poisson's ratio	-	-	-
Flexural strength	ISO 178	MPa	250
Flexural modulus	ISO 178	GPa	20.0
Flexural elongation at break	ISO 178	%	1.4
Charpy impact strength notched / Un notched (23°C)	ISO 179/1eU	kJ/m <sup>2</sup>	8 / 30
Compressive strength	ISO 604	MPa	-
Rockwell hardness, R/M	ISO 2039-2	-	121/100
Coefficient of friction <sup>b</sup> , static /dynamic	-	-	-
<b>Thermal</b>			
Distortion temp. of under load, 1.82 / 0.45 MPa	ISO 75-1, -2A	°C	265
Coefficient of thermal expansion <sup>c</sup> , -30 to 90°C	ISO 11359-1, -2	m/mK	1.75x10 <sup>-5</sup>
UL Flammability, t~0.8mm	UL-94	-	V-0
<b>Electrical</b>			
Dielectric strength, t=1.6mm	IEC 60243-1	kv/mm	16
Dielectric constant, 1MHz	IEC 60250	-	5
Dissipation factor, 1MHz	IEC 60250	-	0.006
Comparative tracking index (CTI)	IEC 112	Volt	250
Arc resistance	ASTM D-495	sec.	180
Volume resistivity	IEC 60093	Ohm.cm	10 <sup>16</sup>
<b>Process Conditions</b>			
Cylinder temperature	-	°C	300-340
Mold temperature	-	°C	120-150

a: MD; Mold direction, TD; Transverse direction, b: P=150KPa, V=0.3m/s, PPS vs. carbon steel,  
c: Average value of MD & TD,



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