Color & Comfort

DIC.PPS
Polyphenylene Sulfide

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	ISO 1183	g/cm^3	1.96
Water absorption, 23˚C/24Hrs.	ISO 62	%	0.01
Mold shrinkage [a]	ISO 294-4	%	0.3/0.6
Mechanical			
Tensile strength	ISO 527-1,2	MPa	180
Tensile modulus	ISO 527-1,2	GPa	22.0
Tensile strain at break	ISO 527-1,2	%	1.2
Flexural strength	ISO 178	MPa	270
Flexural modulus	ISO 178	GPa	21.0
Flexural strain at break	ISO 178	%	1.5
Charpy impact strength,			
notched	ISO 179/1eA	kJ/m^2	10
unnotched	ISO 179/1eU	kJ/m^2	31
Co-eff. of friction [b], static/dynamic	-	-	0.35/0.35
Thermal			
Heat deflection temperature, 1.80MPa	ISO 75-1,2	˚C	275
Co-eff. of linear thermal expansion [a], -50~50 ˚C	ISO 11359-2	x 10^{-5}/K	1.5/2.5
Co-eff. of linear thermal expansion [a], 100~200 ˚C	ISO 11359-2	x 10^{-5}/K	1.5/7.0
Flammability [c]/thickness (mm)	UL-94	-	V-0/0.73
Electrical			
Dielectric strength, t=1.0mm	IEC 60243-1	kV/mm	22
Dielectric constant, 1MHz	IEC 60250	-	5
Dissipation factor, 1MHz	IEC 60250	-	0.002
Comparative Tracking Index (CTI)	IEC 60112	V	200
Volume resistivity	IEC 60093	Ω·cm	10^{16}
Molding Condition			
Cylinder temperature	-	˚C	300-340
Mold temperature	-	˚C	130-150

a: Flow direction/Transverse direction
b: P=150kPa, V=0.3m/s, PPS vs. carbon steel
c: UL file No. E53829

DIC Corporation