

FZ-3600-R5 BLACK

■ **Product Summary:** FZ-3600-R5 is a glass fiber and mineral filled branched PPS compound with excellent hydrolytic stability for use in applications exposed to hot water or engine coolant.

■ **Color:** Black

Engineering Properties

Properties	Test Method	Unit	Typical value
General Information			GF/Filler Hydrolytic stability
Physical			
Density	ISO 1183-1	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	155
Tensile modulus	ISO 527-1,2	GPa	21.0
Tensile strain at break	ISO 527-1,2	%	1.0
Flexural strength	ISO 178	MPa	235
Flexural modulus	ISO 178	GPa	20.0
Flexural strain at flexural strength	ISO 178	%	1.3
Charpy impact strength, notched	ISO 179/1eA	kJ/m ²	7
unnotched	ISO 179/1eU	kJ/m ²	22
Co-eff. of friction ^b , static/dynamic	-	-	0.35/0.35
Thermal			
Temperature of deflection under load, 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 equivalent/0.40
Electrical			
Electric strength, t=1.0mm	IEC 60243-1	kV/mm	21
Relative permittivity, 1MHz	IEC 62631-2-1	-	5
Dielectric dissipation factor, 1MHz	IEC 62631-2-1	-	0.002
Comparative Tracking Index (CTI)	IEC 60112	V	200
Volume resistivity	IEC 62631-3-1	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: Own data