



September, 2023

## **FZ-3600-L4 BLACK**

■ Product Summary: FZ-3600-L4 is a glass fiber and mineral filled branched PPS compound with excellent dimensional stability.

■ Color: Black

**Engineering Properties** 

Properties	Test Method	Unit	Typical value
General Information			GF/Filler Dimensional stability
Physical			
Density Water absorption, 23°C/24Hrs. Mold shrinkage <sup>a</sup> Mechanical	ISO 1183-1 ISO 62 ISO 294-4	g/cm³ % %	2.03 0.01 0.3/0.5
Tensile strength Tensile modulus Tensile strain at break Flexural strength Flexural modulus Flexural strain at flexural strength Charpy impact strength, notched unnotched Co-eff. of friction b, static/dynamic Thermal	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	130 22.0 0.7 210 22.0 1.1 7 20 0.35/0.35
Temperature of deflection under load, 1.80MPa Co-eff. of linear thermal expansion <sup>a</sup> , -50~50 °C Co-eff. of linear thermal expansion <sup>a</sup> , 100~200 °C Flammability <sup>c</sup> /thickness (mm)	ISO 75-1,2 ISO 11359-2 ISO 11359-2 UL-94	°C x 10 <sup>-5</sup> /K x 10 <sup>-5</sup> /K -	275 1.5/2.5 1.5/7.0 V-0 equivalent/0.40
Electrical			
Electric strength, t=1.0mm Relative permittivity, 1MHz Dielectric dissipation factor, 1MHz Comparative Tracking Index (CTI) Volume resistivity	IEC 60243-1 IEC 62631-2-1 IEC 62631-2-1 IEC 60112 IEC 62631-3-1	kV/mm - - V Ω·cm	21 5 0.002 200 10 <sup>16</sup>
Molding Condition			
Cylinder temperature Mold temperature	-	°C °C	300-340 130-150

a: Flow direction/Transverse direction

## **DIC** Corporation

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

c: Own data