

## FZ-2130 BLACK, FZ-2130 GRAY

- **Product Summary:** FZ-2130 is a 30% glass fiber reinforced linear PPS compound which is well balanced with excellent mechanical properties and processability.
- **Color:** Black, Gray

Engineering Properties			
Properties	Test Method	Unit	Typical value
General Information			GF30% Standard
<b>Physical</b>			
Density	ISO 1183-1	g/cm <sup>3</sup>	1.59
Water absorption, 23°C/24Hrs.	ISO 62	%	0.01
Mold shrinkage <sup>a</sup>	ISO 294-4	%	0.3/0.8
<b>Mechanical</b>			
Tensile strength	ISO 527-1,2	MPa	170
Tensile modulus	ISO 527-1,2	GPa	13.0
Tensile strain at break	ISO 527-1,2	%	1.7
Flexural strength	ISO 178	MPa	255
Flexural modulus	ISO 178	GPa	12.0
Flexural strain at flexural strength	ISO 178	%	2.2
Charpy impact strength, notched	ISO 179/1eA	kJ/m <sup>2</sup>	9
unnotched	ISO 179/1eU	kJ/m <sup>2</sup>	45
Co-eff. of friction <sup>b</sup> , static/dynamic	-	-	0.35/0.35
<b>Thermal</b>			
Temperature of deflection under load, 1.80MPa	ISO 75-1,2	°C	265
Co-eff. of linear thermal expansion <sup>a</sup> , -50~50 °C	ISO 11359-2	x 10 <sup>-5</sup> /K	1.5/4.5
Co-eff. of linear thermal expansion <sup>a</sup> , 100~200 °C	ISO 11359-2	x 10 <sup>-5</sup> /K	1.5/12.5
Flammability <sup>c</sup> /thickness (mm)	UL-94	-	V-0 equivalent/0.72
<b>Electrical</b>			
Electric strength, t=1.0mm	IEC 60243-1	kV/mm	26
Relative permittivity, 1MHz	IEC 62631-2-1	-	4
Dielectric dissipation factor, 1MHz	IEC 62631-2-1	-	0.004
Comparative Tracking Index (CTI)	IEC 60112	V	175
Volume resistivity	IEC 62631-3-1	Ω·cm	10 <sup>16</sup>
<b>Molding Condition</b>			
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