



September, 2023

## **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
Physical			
Density	ISO 1183-1	g/cm³	1.59
Water absorption, 23°C/24Hrs.	ISO 62	%	0.01
Mold shrinkage <sup>a</sup>	ISO 294-4	%	0.3/0.8
Mechanical			
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/m²	9
unnotched	ISO 179/1eU	kJ/m²	45
Co-eff. of friction b, static/dynamic	-	-	0.35/0.35
Thermal			
Temperature of deflection under load, 1.80MPa	ISO 75-1,2	°C	265
Co-eff. of linear thermal expansion a, -50~50 °C	ISO 11359-2	x 10 <sup>-5</sup> /K	1.5/4.5
Co-eff. of linear thermal expansion a, 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
Electrical			
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	$\Omega \cdot cm$	10 <sup>16</sup>
Molding Condition			
Cylinder temperature	-	°C	300-340
Mold temperature	-	°C	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