





FZ-2100, FZ-2100 BLACK

■ Product Summary: FZ-2100 is an unreinforced PPS compound with excellent ductility and flexibility.

■ Color: Black and Natural (Brown)

Engineering Properties

Properties	Test Method	Unit	Typical value Unreinforced
General Information			Super tough Flexibility
Physical			·
Density	ISO 1183-1	g/cm³	1.34
Water absorption, 23°C/24Hrs.	ISO 62 ISO 294-4	% %	0.02 1.1/1.4
Mold shrinkage ^a Mechanical	150 294-4	70	1.1/1.4
Tensile strength	ISO 527-1,2	MPa	Y75
Tensile strength Tensile modulus	ISO 527-1,2	GPa	4.0
Tensile strain at break	ISO 527-1,2	%	tB15
Flexural strength	ISO 178	MPa	135
Flexural modulus	ISO 178	GPa	3.5
Flexural strain at flexural strength	ISO 178	%	-
Charpy impact strength,			
notched	ISO 179/1eA	kJ/m²	3
unnotched	ISO 179/1eU	kJ/m²	NB
Co-eff. of friction b, static/dynamic	-	-	0.35/0.40
Thermal	100 75 4 0	• •	110
Temperature of deflection under load, 1.80MPa	ISO 75-1,2	°C	110
Co-eff. of linear thermal expansion a, -50~50 °C Co-eff. of linear thermal expansion a, 100~200 °C	ISO 11359-2	x 10 ⁻⁵ /K x 10 ⁻⁵ /K	4.0/5.0
Flammability c/thickness (mm)	ISO 11359-2 UL-94	X 10 %K	11.5/12.0 V-0 equivalent/0.75
Electrical	UL-94	-	v-o equivalent/o.75
Electric strength, t=1.0mm	IEC 60243-1	kV/mm	28
Relative permittivity, 1MHz	IEC 62631-2-1	-	3
Dielectric dissipation factor, 1MHz	IEC 62631-2-1	_	0.001
Comparative Tracking Index (CTI)	IEC 60112	V	175
Volume resistivity	IEC 62631-3-1	$\Omega \!\cdot\! cm$	10 ¹⁷
Molding Condition			
Cylinder temperature	-	°C	300-340
Mold temperature	-	°C	130-150

a: Flow direction/Transverse direction

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

c: Own data

^{* :} Y=Tensile stress at yield, tB=Nominal tensile strain at break, NB=Not Broken