

FZ-2100-U, FZ-2100 BLACK-U

- **Product Summary:** FZ-2100-U is an unreinforced PPS compound with excellent ductility and flexibility.
- **Color:** Black and Natural (Brown)

Engineering Properties			
Properties	Test Method	Unit	Typical value
General Information			Unreinforced Super tough Flexibility
Physical			
Density	ISO 1183-1	g/cm ³	1.34
Water absorption, 23°C/24Hrs.	ISO 62	%	0.02
Mold shrinkage ^a	ISO 294-4	%	1.1/1.4
Mechanical			
Tensile strength	ISO 527-1,2	MPa	Y75
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/m ²	3
unnotched	ISO 179/1eU	kJ/m ²	NB
Co-eff. of friction ^b , static/dynamic	-	-	0.35/0.40
Thermal			
Temperature of deflection under load, 1.80MPa	ISO 75-1,2	°C	110
Co-eff. of linear thermal expansion ^a , -50~50 °C	ISO 11359-2	x 10 ⁻⁵ /K	4.0/5.0
Co-eff. of linear thermal expansion ^a , 100~200 °C	ISO 11359-2	x 10 ⁻⁵ /K	11.5/12.0
Flammability ^c /thickness (mm)	UL-94	-	V-0/0.75
Electrical			
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	Ω·cm	10 ¹⁷
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: UL file No. E53829

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