

FZ-1140-B2-U, FZ-1140-B2 BLACK-U

- **Product Summary:** FZ-1140-B2-U is a 40% glass fiber reinforced branched PPS compound with high flow and excellent processability.
- **Color:** Black and Natural (Brown)

Engineering Properties			
Properties	Test Method	Unit	Typical value
General Information			GF40% High flow
Physical			
Density	ISO 1183-1	g/cm ³	1.67
Water absorption, 23°C /24hrs.	ISO 62	%	0.02
Mold shrinkage ^a	ISO 294-4	%	0.3/0.7
Mechanical			
Tensile strength	ISO 527-1,2	MPa	185
Tensile modulus	ISO 527-1,2	GPa	17.0
Tensile strain at break	ISO 527-1,2	%	1.4
Flexural strength	ISO 178	MPa	280
Flexural modulus	ISO 178	GPa	15.0
Flexural strain at flexural strength	ISO 178	%	1.8
Charpy impact strength, notched	ISO 179/1eA	kJ/m ²	10
unnotched	ISO 179/1eU	kJ/m ²	35
Co-eff. of friction ^b , static/dynamic	-	-	0.35/0.35
Thermal			
Temperature of deflection under load, 1.80MPa	ISO 75-1,2	°C	270
Co-eff. of linear thermal expansion ^a , -50~50 °C	ISO 11359-2	x 10 ⁻⁵ /K	1.5/4.0
Co-eff. of linear thermal expansion ^a , 100~200 °C	ISO 11359-2	x 10 ⁻⁵ /K	1.5/10.5
Flammability ^c /thickness (mm)	UL-94	-	V-0/0.36
Electrical			
Electric strength, t=1.0mm	IEC 60243-1	kV/mm	24
Relative permittivity, 1MHz	IEC 62631-2-1	-	4
Dielectric dissipation factor, 1MHz	IEC 62631-2-1	-	0.003
Comparative Tracking Index (CTI)	IEC 60112	V	175
Volume resistivity	IEC 62631-3-1	Ω·cm	10 ¹⁶
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