

FZ-2100

- **Outline: FZ-2100 is an un-filled polyphenylene sulfide compound with excellent ductility and flexibility.**
- **Color: Black and Natural**

Engineering Properties of FZ-2100

Properties	Test Method	Unit	FZ-2100
General Information	<ASTM>		Un-reinforced
Physical			
Specific gravity	D-792	-	1.35
Water absorption, 23deg. /24Hrs. /in water	D-570	Wt.%	0.02
Mold shrinkage, MD /TD ^a	D-955	%	1.3/1.5
Mechanical			
Tensile strength	D-638	MPa	80
Tensile modulus	D-638	MPa	4200
Tensile elongation at break	D-638	%	>15
Poisson's ratio	-	-	0.38
Flexural strength	D-790	MPa	130
Flexural modulus	D-790	MPa	3800
Flexural elongation at break	D-790	%	>30
Izod impact strength notched / un notched	D-256	J/m	40/1800
Compressive strength	D-695	MPa	120
Rockwell hardness, R/M	D-785	-	121/100
Coefficient of friction ^b , static /dynamic	-	-	0.35/0.40
Thermal			
HDT A, 1.82MPa	D-648	°C	110/200 ^e
Coefficient of thermal expansion ^c , -30 to 90°C	D-696	m/mK	4.0x10 ⁻⁵
UL Flammability ^d , t~0.8mm	UL-94	-	V-0
Electrical			
Dielectric strength, t=1.6mm	D-149	kv/mm	23
Dielectric constant, 1MHz	D-150	-	3.3
Dissipation factor, 1MHz	D-150	-	0.002
Comparative tracking index (CTI)	D-3638	Volt	135
Arc resistance	D-495	sec.	125
Volume resistivity	D-257	Ohm.cm	10 ¹⁶
Process Conditions			
Cylinder temperature	-	°C	300-340
Mold temperature	-	°C	120-150

a: MD; Mold direction, TD; Transverse direction,

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

c: Average value of MD & TD, d: UL file No. E53829, e: Fiber stress 0.46MPa.

Please refer to Material Safety Data Sheet for safety precautions prior to use. The information contained in this data sheet is based on tests or research DIC Corporation ('DIC') believes to be reliable, but no warranty is given by DIC concerning the accuracy or completeness thereof. The supply of the information does not release the recipient from the obligation to test the products as to their suitability for the intended applications and processes. DIC has no liability for any consequence of the application, processing or use of the information or the products. Information concerning the application of the products is not and should not be construed as a warranty as to non-infringement of intellectual property for a particular application.

