

FZ-1130-D5

- **Outline:** FZ-1130-D5 is a glass fiber 30% reinforced polyphenylene sulfide compound with reduced flash and improved flexibility compared to conventional grades.
- **Color:** Black and Natural (Brown).

Engineering Properties of FZ-1130-D5

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Properties	Test Method	Unit	FZ-1130-D5
General Information	<ASTM>		GF30% Low flash & Tough
Physical			
Specific gravity	D-792	-	1.56
Water absorption, 23deg. /24Hrs. /in water	D-570	Wt.%	0.02
Mold shrinkage, MD /TD ^a	D-955	%	0.27/1.2
Mechanical			
Tensile strength	D-638	MPa	175
Tensile modulus	D-638	MPa	11000
Tensile elongation at break	D-638	%	1.9
Poisson's ratio	-	-	0.36
Flexural strength	D-790	MPa	240
Flexural modulus	D-790	MPa	10000
Flexural elongation at break	D-790	%	2.5
Izod impact strength notched / un notched	D-256	J/m	95/550
Compressive strength	D-695	MPa	190
Rockwell hardness, R/M	D-785	-	121/100
Coefficient of friction ^b , static /dynamic	-	-	0.35/0.35
Thermal			
HDT A, 1.82MPa	D-648	°C	265
Coefficient of thermal expansion ^c , -30 to 90°C	D-696	m/mK	2.3x10 ⁻⁵
UL Flammability ^d , t~0.8mm	UL-94	-	V-0
Electrical			
Dielectric strength, t=1.6mm	D-149	kv/mm	16
Dielectric constant, 1MHz	D-150	-	4
Dissipation factor, 1MHz	D-150	-	0.002
Comparative tracking index (CTI)	D-3638	Volt	170
Arc resistance	D-495	sec.	120
Volume resistibility	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



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