

FZ-3600-D5

■ Out line: FZ-3600-D5 is glass fiber and mineral filled polyphenylene sulfide compound that is enhanced strength and mold ability compared to general purpose grade FZ-3600.

■ Color: Black and Natural (Brown)

Engineering Properties of FZ-3600-D5

Properties	Test Method	Unit	FZ-3600-D5
General Information		<ASTM>	GF/Filler High strength
Physical			
Specific gravity	D-792	-	1.88
Water absorption, 23deg. /24Hrs. /in water	D-570	Wt. %	0.02
Mold shrinkage, MD /TD ^a	D-955	%	0.25/1.0
Mechanical			
Tensile strength	D-638	MPa	140
Tensile modulus	D-638	MPa	18500
Tensile elongation at break	D-638	%	1.0
Poisson's ratio	-	-	0.34
Flexural strength	D-790	MPa	230
Flexural modulus	D-790	MPa	17000
Flexural elongation at break	D-790	%	1.6
Izod impact strength	D-256	J/m	
notched / un notched			85/320
Compressive strength	D-695	MPa	180
Rockwell hardness, R/M	D-785	-	121/100
Coefficient of friction ^b , static /dynamic	-	-	0.35/0.35
Thermal			
Distortion temp. of under load, 1.82MPa	D-648	°C	265
Coefficient of thermal expansion ^c , -30 to 90°C	D-648	m/mK	1.8x10 ⁻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	-	5
Dissipation factor, 1MHz	D-150	-	0.006
Comparative tracking index (CTI)	D-3638	Volt	250
Arc resistance	D-495	sec.	180
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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