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DIC.PPS

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FZ-3600-L4

■ **Out line: FZ-3600-L4 is glass fiber and mineral filled polyphenylene sulfide compound which provides excellent dimensional stability.**

■ **Color: Black**

Engineering Properties of FZ-3600-L4

Properties	Test Method	Unit	**FZ-3600-L4**
General Information	<ASTM>		GF/Filler Dimensional stability
Physical			
Specific gravity	D-792	-	2.00
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	120
Tensile modulus	D-638	MPa	21000
Tensile elongation at break	D-638	%	0.8
Poisson's ratio	-	-	0.33
Flexural strength	D-790	MPa	175
Flexural modulus	D-790	MPa	20000
Flexural elongation at break	D-790	%	1.2
Izod impact strength	D-256	J/m	
notched / un notched			70/230
Compressive strength	D-695	MPa	150
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	℃	265
Coefficient of thermal expansion [c], -30 to 90℃	D-696	m/mK	$1.7x10^{-5}$
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	-	0.007
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	-	℃	300-340
Mold temperature	-	℃	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