

DIC.PPS FZ-3600

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: FZ-3600 is a glass fiber and mineral filled polyphenylene sulfide compound for general purpose use that provides excellent engineering properties and processability.

Color: Black and Natural (Brown)

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	General Purpose		
	Good Processability		
Uses	General Purpose		
UL File Number	E53829		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.96	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	
Across Flow	1.0	%	
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	100		
R-Scale	121		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18500	MPa	ASTM D638
Tensile Strength	125	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	17500	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Compressive Strength	150	MPa	ASTM D695
Poisson's Ratio	0.34		
Coefficient of Friction ¹			ASTM D1894
vs. Steel - Dynamic	0.35		

vs. Steel - Static	0.35		
Flexural Elongation at Break	1.3	%	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	70	J/m	ASTM D256
Unnotched Izod Impact	260	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	265	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 90°C	1.7E-5	cm/cm/°C	
Transverse : -30 to 90°C	1.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	16	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D150
Dissipation Factor (1 MHz)	7.0E-3		ASTM D150
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index	250	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	300 to 340	°C	
Middle Temperature	300 to 340	°C	
Front Temperature	300 to 340	°C	
Mold Temperature	120 to 150	°C	
NOTE			
1.	P=150KPa, V=0.3m/s		

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