

DIC.PPS FZ-8600

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: FZ-8600 is a glass fiber and mineral filled PPS compound developed to provide excellent surface flatness and luster for lamp reflectors.

Color: Black

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Good Surface Finish		
UL File Number	E53829		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.40	%	
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	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12500	MPa	ASTM D638
Tensile Strength	100	MPa	ASTM D638
Tensile Elongation (Break)	1.1	%	ASTM D638
Flexural Modulus	12000	MPa	ASTM D790
Flexural Strength	140	MPa	ASTM D790
Compressive Strength	150	MPa	ASTM D695
Poisson's Ratio	0.33		
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.35		
vs. Steel - Static	0.35		
Flexural Elongation at Break	1.1	%	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	50	J/m	ASTM D256
Unnotched Izod Impact	240	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 90°C	1.8E-5	cm/cm/°C	
Transverse : -30 to 90°C	1.8E-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)	6.0E-3		ASTM D150
Arc Resistance	160	sec	ASTM D495
Comparative Tracking Index	190	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	

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