

DIC.PPS FZ-820

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: FZ-820 is a glass fiber filled PPS compound developed to provide excellent adhesive bonding, toughness and thin wall flow ability.
Color: Black

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Bondability		
	Good Adhesion		
	Good Flow		
	Good Toughness		
UL File Number	E53829		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.32	%	
Across Flow	1.2	%	
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	84		
R-Scale	118		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ASTM D638
Tensile Strength	135	MPa	ASTM D638
Tensile Elongation (Break)	2.1	%	ASTM D638
Flexural Modulus	6600	MPa	ASTM D790
Flexural Strength	180	MPa	ASTM D790
Compressive Strength	170	MPa	ASTM D695
Poisson's Ratio	0.37		
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.35		
vs. Steel - Static	0.35		
Flexural Elongation at Break	3.4	%	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256
Unnotched Izod Impact	650	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	230	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 90°C	3.5E-5	cm/cm/°C	
Transverse : -30 to 90°C	3.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	24	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00		ASTM D150
Dissipation Factor (1 MHz)	2.0E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
Comparative Tracking Index	180	V	ASTM D3638
Injection	Nominal Value	Unit	
Rear Temperature	290 to 320	°C	
Middle Temperature	290 to 320	°C	
Front Temperature	290 to 320	°C	
Mold Temperature	120 to 150	°C	

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