

DIC.PPS FZ-928N Black

Polyphenylene Sulfide

DIC Corporation

Message:

Out line: FZ-928N Black is glass fiber reinforced PPS compound which is developed to provide a excellent adhesive bonding, toughness, and thin wall flow ability.

Color: Black

General Information			
Filler / Reinforcement	Glass Fiber		
Features	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		ASTM E132
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 - Flow (-30 to 100°C)	3.5E-5	cm/cm/°C	ASTM D696
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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