

DIC.PPS FZ-2100

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: FZ-2100 is an un-filled polyphenylene sulfide compound with excellent ductility and flexibility.
Color: Black and Natural

General Information			
UL YellowCard	E53829-100255630		
Features	Ductile		
	Good Flexibility		
UL File Number	E53829		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.3	%	
Across Flow	1.5	%	
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	4200	MPa	ASTM D638
Tensile Strength	80.0	MPa	ASTM D638
Tensile Elongation (Break)	> 15	%	ASTM D638
Flexural Modulus	3800	MPa	ASTM D790
Flexural Strength	130	MPa	ASTM D790
Compressive Strength	120	MPa	ASTM D695
Poisson's Ratio	0.38		
Coefficient of Friction ¹			ASTM D1894
vs. Steel - Dynamic	0.40		
vs. Steel - Static	0.35		
Flexural Elongation at Break	> 30	%	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	J/m	ASTM D256
Unnotched Izod Impact	1800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	200	°C	
1.8 MPa, Unannealed	110	°C	
CLTE			ASTM D696
Flow : -30 to 90°C	4.0E-5	cm/cm/°C	
Transverse : -30 to 90°C	4.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	23	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.30		ASTM D150
Dissipation Factor (1 MHz)	2.0E-3		ASTM D150
Arc Resistance	125	sec	ASTM D495
Comparative Tracking Index	135	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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