

DIC.PPS FZ-2140-D9

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: FZ-2140-D9 is a 40% glass fiber reinforced linear polyphenylene sulfide compound with reduced flash and improved flowability for connector use.
Color: Black and Natural (Off-white)

General Information			
UL YellowCard	E53829-243759	E53829-243760	
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Good Flow		
Uses	Connectors		
UL File Number	E53829		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	
Across Flow	1.1	%	
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	14000	MPa	ASTM D638
Tensile Strength	180	MPa	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	13000	MPa	ASTM D790
Flexural Strength	270	MPa	ASTM D790
Compressive Strength	200	MPa	ASTM D695
Poisson's Ratio	0.36		
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.35		
vs. Steel - Static	0.35		

Flexural Elongation at Break	2.5	%	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256
Unnotched Izod Impact	550	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	2.2E-5	cm/cm/°C	
Transverse : -30 to 90°C	2.2E-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)	4.00		ASTM D150
Dissipation Factor (1 MHz)	2.0E-3		ASTM D150
Arc Resistance	125	sec	ASTM D495
Comparative Tracking Index	170	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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