DIC.PPS FZ-1150

Polyphenylene Sulfide

DIC Corporation

Message:

DIC.PPS FZ-1150 is a polyphenylene sulfide (PPS) product, which contains a 50% glass fiber reinforced material. It can be processed by injection molding and is available in North America or Asia Pacific. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E53829-243754		
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Features	General		
Uses	General		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.77	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
Class m	100		ASTM D785
Class r	121		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	18000	MPa	ASTM D638
Tensile Strength	180	MPa	ASTM D638
Tensile Elongation (Break)	1.4	%	ASTM D638
Flexural Modulus	17000	MPa	ASTM D790
Flexural Strength	270	MPa	ASTM D790
Compressive Strength	200	MPa	ASTM D695
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.35		ASTM D1894
With metal-static	0.35		ASTM D1894
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 - Flow (-30 to 100°C)	2.0E-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)	16	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.50		ASTM D150
Dissipation Factor (1 MHz)	4.0E-3		ASTM D150
Arc Resistance	125	sec	ASTM D495
Comparative Tracking Index (CTI)	150	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Additional Information			
The value shown for Comparative Track Index, UL 746, was tested in accordance with ASTM D3638.Flexural Elongation @ Break, ASTM D790: 2%			
Injection	Nominal Value	Unit	
Rear Temperature	300 - 340	°C	
Middle Temperature	300 - 340	°C	
Front Temperature	300 - 340	°C	
Mold Temperature	120 - 150	°C	

Recommended distributors for this material

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