

DIC.PPS FZ-3360-M1

Polyphenylene Sulfide

DIC Corporation

Message:

DIC.PPS FZ-3360-M1 is a polyphenylene sulfide (PPS) product, which contains glass fiber reinforced materials. 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	E53829-243765		
Filler / Reinforcement	Glass fiber reinforced material		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.04	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.030	%	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	30000	MPa	ASTM D638
Tensile Strength	125	MPa	ASTM D638
Tensile Elongation (Break)	0.50	%	ASTM D638
Flexural Modulus	28000	MPa	ASTM D790
Flexural Strength	170	MPa	ASTM D790
Compressive Strength	120	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	40	J/m	ASTM D256
Unnotched Izod Impact	170	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)	1.7E-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)	17	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D150
Dissipation Factor (1 MHz)	8.0E-3		ASTM D150
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index (CTI)	190	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: 0.7%

Injection	Nominal Value	Unit
Rear Temperature	300 - 340	°C
Middle Temperature	300 - 340	°C
Front Temperature	300 - 340	°C
Mold Temperature	120 - 150	°C

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

