

DIC.PPS ZL-130

Polyphenylene Sulfide

DIC Corporation

Message:

DIC.PPS ZL-130 is a polyphenylene sulfide (PPS) product, which contains 30% ptfе fiber. 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	E53829-101909357		
Filler / Reinforcement	PTFE fiber, 30% filler by weight		
Features	Self-lubricating		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.0	%	ASTM D955
Transverse flow	1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3700	MPa	ASTM D638
Tensile Strength	60.0	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	3400	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790
Compressive Strength	70.0	MPa	ASTM D695
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.20		ASTM D1894
With metal-static	0.20		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	70	J/m	ASTM D256
Unnotched Izod Impact	500	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	200	°C	ASTM D648
1.8 MPa, not annealed	110	°C	ASTM D648
CLTE - Flow (-30 to 100°C)	4.0E-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)	4.00		ASTM D150
Dissipation Factor (1 MHz)	1.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94

Additional Information

Flexural Elongation @ Break, ASTM D790: 6%

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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