

DIC.PPS CZL-5000

Polyphenylene Sulfide

DIC Corporation

Message:

DIC.PPS CZL-5000 is a polyphenylene sulfide (PPS) product that contains carbon \ptfe. 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	E53829-243742		
Filler / Reinforcement	Carbon \PTFE		
Features	Self-lubricating		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.69	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m	98		ASTM D785
Class r	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15000	MPa	ASTM D638
Tensile Strength	90.0	MPa	ASTM D638
Tensile Elongation (Break)	0.60	%	ASTM D638
Flexural Modulus	14000	MPa	ASTM D790
Flexural Strength	120	MPa	ASTM D790
Compressive Strength	120	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	50	J/m	ASTM D256
Unnotched Izod Impact	150	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)	1.2E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method

Flame Rating (0.800 mm)	V-0	UL 94
Additional Information		
Flexural Elongation @ Break, ASTM D790: 1%		
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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