

DIC.PPS CZL-2000

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: CZL-2000 is a pitch based carbon fiber and poly tetra fluoro ethylene filled PPS compound that has excellent self lubricant performance with low wear, and low friction properties.

Color: Black

General Information			
Filler / Reinforcement	Carbon\PTFE		
Features	Good Wear Resistance		
	Low Friction		
	Self Lubricating		
UL File Number	E53829		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	
Across Flow	0.25	%	
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	98		
R-Scale	118		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ASTM D638
Tensile Strength	100	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	8000	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Compressive Strength	120	MPa	ASTM D695
Poisson's Ratio	0.36		
Coefficient of Friction ¹			ASTM D1894
vs. Steel - Dynamic	0.21		
vs. Steel - Static	0.21		
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	45	J/m	ASTM D256
Unnotched Izod Impact	200	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	2.1E-5	cm/cm/°C	
Transverse : -30 to 90°C	2.1E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+7 to 1.0E+8	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	290 to 320	°C	
Middle Temperature	290 to 320	°C	
Front Temperature	290 to 320	°C	
Mold Temperature	120 to 150	°C	
NOTE			
1.	P=150KPa, V=0.3m/s		

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