

DIC.PPS CZ-1030

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: CZ-1030 is a pitch based carbon fiber reinforced PPS compound that has excellent self lubricant performance with low wear, and low friction properties.
Color: Black

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
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	1.43	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	
Across Flow	1.1	%	
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	100		
R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ASTM D638
Tensile Strength	115	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	9000	MPa	ASTM D790
Flexural Strength	170	MPa	ASTM D790
Compressive Strength	130	MPa	ASTM D695
Poisson's Ratio	0.36		
Coefficient of Friction ¹			ASTM D1894
vs. Steel - Dynamic	0.20		
vs. Steel - Static	0.20		
Flexural Elongation at Break	1.2	%	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	45	J/m	ASTM D256
Unnotched Izod Impact	220	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	2.0E-5	cm/cm/°C	
Transverse : -30 to 90°C	2.0E-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	300 to 340	°C	
Middle Temperature	300 to 340	°C	
Front Temperature	300 to 340	°C	
Mold Temperature	120 to 150	°C	
NOTE			
1.	P=150KPa, V=0.3m/s		

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