

DIC.PPS CZL-4033

Polyphenylene Sulfide

DIC Corporation

Message:

Out line: CZL-4033 is a PAN based carbon fiber and poly tetra fluoro ethylene filled PPS compound that has excellent mechanical property, wear resistance, low friction and electric conductivity.

Color: Natural (Black)

General Information			
UL YellowCard	E53829-100133809		
Filler / Reinforcement	Carbon\PTFE		
Features	Electrically Conductive		
	Good Wear Resistance		
	Low Friction		
	Lubricated		
UL File Number	E53829		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10	%	
Across Flow	1.0	%	
Water Absorption (23°C, 24 hr)	0.020	%	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	19000	MPa	ASTM D638
Tensile Strength	170	MPa	ASTM D638
Tensile Elongation (Break)	1.1	%	ASTM D638
Flexural Modulus	18000	MPa	ASTM D790
Flexural Strength	270	MPa	ASTM D790
Compressive Strength	200	MPa	ASTM D695
Poisson's Ratio	0.35		
Coefficient of Friction ¹			ASTM D1894
vs. Steel - Dynamic	0.23		

vs. Steel - Static	0.23		
Flexural Elongation at Break	1.6	%	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	55	J/m	ASTM D256
Unnotched Izod Impact	320	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	1.4E-5	cm/cm/°C	
Transverse : -30 to 90°C	1.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+2 to 1.0E+3	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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

