

DIC.PPS Z-200-E5

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: Z-200-E5 is an un-filled super tough PPS compound with excellent flexibility and toughness compared to FZ-2100.
Color: Gray

General Information			
UL YellowCard	E53829-100954942		
Features	Good Flexibility		
	Ultra High Toughness		
UL File Number	E53829		
Appearance	Grey		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.3	%	
Across Flow	1.5	%	
Water Absorption (23°C, 24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength	70.0	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Compressive Strength	100	MPa	ASTM D695
Poisson's Ratio	0.38		
Flexural Elongation at Break	> 50	%	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Unnotched Izod Impact	2000	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°C	
1.8 MPa, Unannealed	105	°C	

CLTE			ASTM D696
Flow : -30 to 100°C	4.5E-5	cm/cm/°C	
Transverse : -30 to 100°C	4.5E-5	cm/cm/°C	
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)	3.40		ASTM D150
Dissipation Factor (1 MHz)	2.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 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	

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