

DIC.PPS Z-650

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: Z-650 is a glass fiber and mineral filled super tough PPS compound that provides excellent impact, thermal shock, and hot water resistance with improved dimensional stability.
Color: Black

General Information			
UL YellowCard	E53829-243802		
Filler / Reinforcement	Glass\Mineral		
Features	Good Dimensional Stability		
	Good Thermal Shock Resistance		
	High Impact Resistance		
	Low to No Water Absorption		
UL File Number	E53829		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.72	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	
Across Flow	1.0	%	
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14500	MPa	ASTM D638
Tensile Strength	165	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	13000	MPa	ASTM D790
Flexural Strength	235	MPa	ASTM D790
Compressive Strength	170	MPa	ASTM D695
Poisson's Ratio	0.35		
Flexural Elongation at Break	2.2	%	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256
Unnotched Izod Impact	620	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	255	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 100°C	2.0E-5	cm/cm/°C	
Transverse : -30 to 100°C	2.0E-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)	5.00		ASTM D150
Dissipation Factor (1 MHz)	5.0E-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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