

DIC.PPS Z-200

Polyphenylene Sulfide

DIC Corporation

Message:

DIC.PPS Z-200 is a polyphenylene sulfide (PPS) product. It can be processed by injection molding and is available in North America or Asia Pacific.

Features include:

flame retardant/rated flame

Good toughness

General Information			
Features	Ultra high toughness		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.5	%	ASTM D955
Transverse flow	1.7	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ASTM D638
Tensile Strength	60.0	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2600	MPa	ASTM D790
Flexural Strength	95.0	MPa	ASTM D790
Compressive Strength	70.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	150	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, not annealed	170	°C	ASTM D648
1.8 MPa, not annealed	110	°C	ASTM D648
CLTE - Flow (-30 to 100°C)	5.0E-5	cm/cm/°C	ASTM D696
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)	3.00		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150

Arc Resistance	60.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Additional Information			
Flexural Elongation @ Break, ASTM D790: NB			
Injection	Nominal Value	Unit	
Rear Temperature	300 - 340	°C	
Middle Temperature	300 - 340	°C	
Front Temperature	300 - 340	°C	
Mold Temperature	120 - 150	°C	

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