

DIC.PPS EC-50A

Polyphenylene Sulfide

DIC Corporation

Message:

DIC.PPS EC-50A 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

high strength

General Information			
Features	High strength		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	1.1	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.040	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	130	MPa	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	70	J/m	ASTM D256
Unnotched Izod Impact	250	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
CLTE - Flow (-30 to 100°C)	1.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Constant (1 MHz)	4.10		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Additional Information			
Flexural Elongation @ Break, ASTM D790: 1.7%			
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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