

DIC.PPS EC-40B

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: EC-40B is a glass fiber filled compound and has very low melt viscosity that allows low pressure molding. Therefore, EC-40B is used for encapsulating of electronic micro devices.

Color: Black

General Information	
UL YellowCard	E53829-243746
Filler / Reinforcement	Glass Fiber
Features	Low Viscosity
Uses	Electrical/Electronic Applications
UL File Number	E53829
Appearance	Black
Forms	Pellets
Processing Method	Encapsulating Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.23	%	
Across Flow	1.1	%	
Water Absorption (23°C, 24 hr)	0.030	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	100		
R-Scale	121		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ASTM D638
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Break)	1.2	%	ASTM D638
Flexural Modulus	8000	MPa	ASTM D790
Flexural Strength	135	MPa	ASTM D790
Compressive Strength	130	MPa	ASTM D695
Poisson's Ratio	0.37		
Coefficient of Friction ¹			ASTM D1894
vs. Steel - Dynamic	0.35		
vs. Steel - Static	0.35		

Flexural Elongation at Break	1.7	%	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	75	J/m	ASTM D256
Unnotched Izod Impact	220	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 90°C	2.3E-5	cm/cm/°C	
Transverse : -30 to 90°C	2.3E-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)	4.00		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
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

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