

Generic Epoxy - Glass Fiber

Epoxy; Epoxide

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 - 2.03	g/cm ³	ASTM D792
Apparent Density	0.78 - 0.91	g/cm ³	ASTM D1895
Bulk Factor	2.5		ASTM D1895
Molding Shrinkage - Flow (23°C)	0.091 - 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.079 - 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	105 - 115		ASTM D785
Barcol Hardness	70 - 72		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Fracture, 23°C	70.8 - 90.8	MPa	ASTM D638
23°C	55.2 - 198	MPa	ASTM D638
Flexural Modulus (23°C)	13600 - 20600	MPa	ASTM D790
Flexural Strength			ASTM D790
23°C	103 - 543	MPa	ASTM D790
Fracture, 23°C	112 - 161	MPa	ASTM D790
Compressive Strength (23°C)	185 - 263	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	16 - 100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, not annealed	246 - 302	°C	ASTM D648
1.8 MPa, annealed	279 - 282	°C	ASTM D648
CLTE - Flow			
--	1.4E-5 - 5.1E-5	cm/cm/°C	ASTM D696
--	1.4E-5 - 3.7E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (23°C)	0.33 - 0.74	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.6E+13 - 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength (23°C)	11 - 16	kV/mm	ASTM D149

Dielectric Constant			
23°C	3.79 - 5.80		ASTM D150
23°C	3.70 - 4.60		ASTM D2520
Dissipation Factor (23°C)	7.7E-3 - 0.020		ASTM D150
Arc Resistance	178 - 187	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	29 - 50	%	ASTM D2863
Thermoset	Nominal Value	Unit	
Demold Time	7.5 - 180	min	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	104 - 106	°C	
Mold Temperature	162 - 163	°C	
Injection Pressure	50.5 - 51.7	MPa	
Injection instructions			

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