

Generic Phenolic - Glass Fiber, S-Glass

Phenolic

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Phenolic - Glass Fiber, S-Glass
This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	S-Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.79 to 2.09	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.17 to 0.23	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10 to 0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	100 to 118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	34.5 to 68.9	MPa	ASTM D638
Flexural Modulus (23°C)	13800 to 16000	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	51.7 to 172	MPa	ASTM D790
Compressive Strength (23°C)	191 to 278	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21 to 33	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	189 to 216	°C	ASTM D648
CLTE - Flow	1.4E-5 to 2.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity (23°C)	0.42 to 0.59	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	3.5E+2 to 2.0E+13	ohms · cm	ASTM D257
Dielectric Strength (23°C)	13 to 16	kV/mm	ASTM D149
Dielectric Constant (23°C)	4.50 to 5.03		ASTM D150
Dissipation Factor (23°C)	0.020 to 0.030		ASTM D150

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