

Generic Phenolic - Organic

Phenolic

Generic

Message:

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General Information			
Filler / Reinforcement	Organic filler		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.36 - 1.43	g/cm ³	ASTM D792
23°C	1.38 - 1.72	g/cm ³	ISO 1183
Apparent Density	0.52 - 0.65	g/cm ³	ASTM D1895
Molding Shrinkage			
Flow: 23°C	0.26 - 1.1	%	ASTM D955
23°C	0.43 - 0.70	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.28 - 0.48	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	68 - 110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7290 - 9360	MPa	ASTM D638
Tensile Strength (23°C)	34.0 - 62.5	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	0.59 - 0.91	%	ASTM D638
Flexural Modulus (23°C)	6160 - 8740	MPa	ASTM D790
Flexural Strength			
23°C	65.1 - 97.0	MPa	ASTM D790
23°C	70.0 - 128	MPa	ISO 178
Compressive Strength (23°C)	175 - 217	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17.8 - 20.2	J/m	ASTM D256
Notched Izod Impact (23°C)	15 - 24	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	148 - 188	°C	ASTM D648
1.8 MPa, not annealed	115 - 199	°C	ISO 75-2/A
Continuous Use Temperature	183 - 208	°C	ASTM D794
CLTE - Flow	2.1E-5 - 7.0E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	6.4E+10 - 2.1E+12	ohms · cm	ASTM D257

Dielectric Strength (23°C)	7.2 - 16	kV/mm	ASTM D149
Dielectric Constant (23°C)	4.47 - 6.16		ASTM D150
Dissipation Factor (23°C)	0.038 - 0.061		ASTM D150
Arc Resistance	120 - 144	sec	ASTM D495
Comparative Tracking Index (CTI)	150 - 175	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	24 - 29	%	ASTM D2863
Injection	Nominal Value	Unit	
Rear Temperature	60.0 - 74.0	°C	
Processing (Melt) Temp	107 - 110	°C	
Mold Temperature	173 - 175	°C	
Injection Pressure	8.60 - 175	MPa	
Back Pressure	0.200 - 0.445	MPa	
Screw Speed	60	rpm	
Injection instructions			

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