

Generic Phenolic - Mineral

Phenolic

Generic

Message:

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General Information			
Filler / Reinforcement	Mineral filler		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.46 - 1.89	g/cm ³	ASTM D792
23°C	1.49 - 1.59	g/cm ³	ISO 1183
Apparent Density	0.60 - 0.88	g/cm ³	ASTM D1895
Molding Shrinkage			
Flow: 23°C	0.13 - 0.64	%	ASTM D955
23°C	0.41 - 0.75	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.040 - 0.54	%	ASTM D570
23°C, 24 hr	0.020 - 0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	57 - 111		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8300 - 17200	MPa	ASTM D638
Tensile Strength (23°C)	31.0 - 60.4	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	0.30 - 0.81	%	ASTM D638
Flexural Modulus (23°C)	7380 - 9910	MPa	ASTM D790
Flexural Strength			
23°C	59.0 - 175	MPa	ASTM D790
23°C	75.0 - 165	MPa	ISO 178
Compressive Strength (23°C)	138 - 243	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14.4 - 25.3	J/m	ASTM D256
Notched Izod Impact (23°C)	15 - 27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	167 - 207	°C	ASTM D648
1.8 MPa, not annealed	155 - 200	°C	ISO 75-2/A
Continuous Use Temperature	195 - 218	°C	ASTM D794
CLTE - Flow	1.4E-5 - 5.8E-5	cm/cm/°C	ASTM E831

RTI Elec	150 - 180	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.1E+9 - 1.2E+12	ohms·cm	ASTM D257
Dielectric Strength			
23°C	7.4 - 18	kV/mm	ASTM D149
23°C	6.0 - 39	kV/mm	IEC 60243-1
Dielectric Constant			
23°C	4.66 - 6.09		ASTM D150
23°C	4.30 - 5.50		ASTM D2520
Dissipation Factor (23°C)	5.3E-3 - 0.076		ASTM D150
Arc Resistance	155 - 186	sec	ASTM D495
Comparative Tracking Index (CTI)	173 - 176	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	26 - 38	%	ASTM D2863
Injection	Nominal Value	Unit	
Rear Temperature	60.0 - 74.4	°C	
Middle Temperature	65.0 - 74.1	°C	
Front Temperature	89.9 - 90.5	°C	
Nozzle Temperature	87.8 - 95.0	°C	
Processing (Melt) Temp	107 - 110	°C	
Mold Temperature	174	°C	
Injection Pressure	8.60 - 175	MPa	
Back Pressure	0.207 - 0.452	MPa	
Screw Speed	60	rpm	
Injection instructions			

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