

Generic Phenolic

Phenolic

Generic

Message:

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General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.02 - 1.56	g/cm³	ASTM D792
23°C	1.35 - 1.85	g/cm³	ISO 1183
Apparent Density	0.54 - 1.24	g/cm³	ASTM D1895
Bulk Factor	2.0 - 8.0		ASTM D1895
Molding Shrinkage			
Flow: 23°C	0.28 - 1.2	%	ASTM D955
23°C	0.10 - 9.5	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.020 - 0.54	%	ASTM D570
23°C, 24 hr	0.035 - 0.40	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	42 - 112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6760 - 20200	MPa	ASTM D638
Tensile Strength			
Yield, 23°C	45.9 - 112	MPa	ASTM D638
23°C	46.9 - 60.2	MPa	ASTM D638
23°C	54.5 - 60.5	MPa	ISO 527-2
Flexural Modulus (23°C)	5730 - 18400	MPa	ASTM D790
Flexural Strength			
23°C	68.9 - 159	MPa	ASTM D790
23°C	77.0 - 176	MPa	ISO 178
Yield, 23°C	76.7 - 131	MPa	ASTM D790
Compressive Strength			
23°C	48.3 - 236	MPa	ASTM D695
23°C	190 - 295	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
23°C	33.2 - 83.6	J/m	ASTM D256
23°C	1.6 - 9.8	kJ/m²	ISO 179

Notched Izod Impact (23°C)	15 - 92	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	159 - 205	°C	ASTM D648
1.8 MPa, not annealed	155 - 300	°C	ISO 75-2/A
Melting Temperature	65.0 - 75.2	°C	
CLTE - Flow	1.8E-5 - 2.5E-5	cm/cm/°C	ISO 11359-2
RTI Elec	150 - 160	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			
23°C	1.0E+11 - 1.3E+13	ohms·cm	ASTM D257
23°C	8.4E+11 - 1.0E+13	ohms·cm	IEC 60093
Dielectric Strength			
23°C	8.7 - 20	kV/mm	ASTM D149
23°C	9.9 - 15	kV/mm	IEC 60243-1
Dielectric Constant			
23°C	4.44 - 6.60		ASTM D150
23°C	5.00 - 6.50		ASTM D2520
23°C	4.83		IEC 60250
Dissipation Factor (23°C)	0.023 - 0.087		ASTM D150
Arc Resistance	0.00 - 192	sec	ASTM D495
Comparative Tracking Index	175 - 225	V	IEC 60112
Insulation Resistance (23°C)	1.0E+8 - 1.0E+11	ohms	IEC 60167
Thermoset	Nominal Value	Unit	Test Method
Thermoset Mix Viscosity	26.5 - 1370	cP	ASTM D2393
Post Cure Time	4.9E-3 - 1.3	hr	
Injection	Nominal Value	Unit	
Rear Temperature	67.5 - 75.0	°C	
Front Temperature	90.0 - 95.0	°C	
Mold Temperature	173 - 175	°C	
Screw Speed	50 - 60	rpm	
Injection instructions			

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