

Generic Phenolic - Flock

Phenolic
Generic

Message:

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

General Information			
Filler / Reinforcement	Flock		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53 to 1.60	g/cm ³	ASTM D792
Apparent Density	0.61 to 0.63	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (23°C)	0.29 to 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.13 to 0.18	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	79 to 84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9990 to 10500	MPa	ASTM D638
Tensile Strength (23°C)	51.4 to 56.2	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	0.60 to 1.0	%	ASTM D638
Flexural Modulus (23°C)	6780 to 9840	MPa	ASTM D790
Flexural Strength (23°C)	80.4 to 94.1	MPa	ASTM D790
Compressive Strength (23°C)	140 to 201	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18.0 to 22.1	J/m	ASTM D256
Notched Izod Impact (23°C)	17 to 24	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	158 to 236	°C	ASTM D648
Continuous Use Temperature	197 to 204	°C	ASTM D794
CLTE - Flow	3.4E-5 to 6.0E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.3E+11 to 3.9E+11	ohms · cm	ASTM D257
Dielectric Strength (23°C)	6.0 to 17	kV/mm	ASTM D149
Dielectric Constant (23°C)	5.29 to 5.36		ASTM D150
Dissipation Factor (23°C)	0.047 to 0.073		ASTM D150
Arc Resistance	133 to 185	sec	ASTM D495
Comparative Tracking Index (CTI)	174 to 175	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	27 to 42	%	ASTM D2863

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