

Resinoid 7051SS

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 7051SS is a Phenolic product filled with glass fiber. It can be processed by compression molding, injection molding, or resin transfer molding and is available in North America.

Characteristics include:

- Flame Rated
- Good Dimensional Stability
- Good Flexibility

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Dimensional Stability		
	Good Flexibility		
Appearance	Black		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.74	g/cm ³	ASTM D792
Bulk Factor	2.0		ASTM D1895
Molding Shrinkage - Flow	0.10 to 0.20	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
E-Scale	100		
M-Scale	120		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	64.8	MPa	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength (Yield)	165	MPa	ASTM D790
Compressive Strength	276	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	288	°C	ASTM D648
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.2E+11	ohms·cm	ASTM D257
Dielectric Strength	11	kV/mm	ASTM D149
Arc Resistance (1.59 mm)	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	149 to 182	°C	

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