

# Resinoid 7003S

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 7003S 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. Typical application: Military Applications.

Characteristics include:

Flame Rated

Good Dimensional Stability

Impact Resistant

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Dimensional Stability		
	Good Impact Resistance		
Agency Ratings	MIL M-14G		
Appearance	Black		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.83	g/cm <sup>3</sup>	ASTM D792
Bulk Factor	2.0		ASTM D1895
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
E-Scale	80		
M-Scale	106		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	41.4	MPa	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength (Yield)	73.8	MPa	ASTM D790
Compressive Strength	168	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	199	°C	ASTM D648

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	12	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	149 to 177	°C	

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#### Recommended distributors for this material

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