

Resinoid 7005

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 7005 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. Applications of Resinoid 7005 include electrical/electronic applications and military applications.

Characteristics include:

Flame Rated

Good Dimensional Stability

General Information	
UL YellowCard	E61847-247065
Filler / Reinforcement	Glass Fiber
Features	Good Dimensional Stability
Uses	Electrical Parts
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	1.92	g/cm ³	ASTM D792
Bulk Factor	2.0		ASTM D1895
Molding Shrinkage - Flow	0.15	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
E-Scale	77		
M-Scale	105		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	48.3	MPa	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength (Yield)	96.5	MPa	ASTM D790
Compressive Strength	207	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)	221	°C	ASTM D648
CLTE - Flow	3.1E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	14	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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