

# Resinoid 1321

Phenolic  
Resinoid Engineering Corporation

Message:

Resinoid 1321 is a Phenolic product filled with glass fiber and mineral. It can be processed by compression molding, injection molding, or resin transfer molding and is available in North America. Applications of Resinoid 1321 include automotive and electrical/electronic applications.

Characteristics include:

Flame Rated

Good Dimensional Stability

Heat Resistant

Impact Resistant

General Information	
Filler / Reinforcement	Glass Fiber Mineral
Features	Good Dimensional Stability Good Impact Resistance Good Thermal Stability
Uses	Automotive Exterior Parts Electrical Parts
Appearance	Black
Forms	Pellets
Processing Method	Compression Molding Injection Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.94	g/cm <sup>3</sup>	ASTM D792
Bulk Factor	2.0		ASTM D1895
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
E-Scale	90		
M-Scale	110		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	51.0	MPa	ASTM D638
Flexural Modulus	15200	MPa	ASTM D790
Flexural Strength (Yield)	82.0	MPa	ASTM D790

Compressive Strength	178	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	288	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	9.8	kV/mm	ASTM D149
Arc Resistance	190	sec	ASTM D495
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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