

# Resinoid 2005

Phenolic

Resinoid Engineering Corporation

## Message:

Resinoid 2005 is a cellulose reinforced, two-step phenolic molding compound. It exhibits excellent electrical and thermal properties and dimensional stability. This material comes in pelletized form and is suitable for transfer or compression molding. It can be preformed on automatic equipment.

General Information	
UL YellowCard	E61847-247060
Filler / Reinforcement	Fiber filler
Features	Good dimensional stability
	Good electrical performance
Appearance	Black
Forms	Particle
Processing Method	Resin transfer molding
	Compression molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm <sup>3</sup>	ASTM D792A, ISO 1183
Molding Shrinkage			
Flow	0.20 - 0.40	%	ASTM D955
Flow direction	0.20 - 0.40	%	ISO 294-4
Water Absorption			
24 hr	1.0	%	ASTM D570
23°C, 24 hr	1.0	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	41.4	MPa	ASTM D638
Yield	41.0	MPa	ISO 527-2
Flexural Modulus			
--	8270	MPa	ASTM D790
--	8200	MPa	ISO 178
Flexural Strength			
--	68.9	MPa	ASTM D790
--	69.0	MPa	ISO 178
Compressive Strength			
--	138	MPa	ASTM D695
--	166	MPa	ISO 604

Electrical	Nominal Value	Unit	Test Method
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Dielectric Strength	9.8	kV/mm	ASTM D149, IEC 60243-1
Additional Information			
Density -Specific Gravity, ASTM D792, Method A: 1.38 to 1.40 g/cm <sup>3</sup> Density, ISO 1183: 1.38 to 1.40 g/cm <sup>3</sup> Water Absorption @ 24 hrs, ASTM D570: <1%Water Absorption 24h/23°C, ISO 62: 250 V/milElectric Strength, IEC 60243-1: >9.8 kV/m <sup>2</sup>			

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