

Resinoid 2002-4P

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 2002-4P is a Phenolic product filled with filler. It can be processed by compression molding, injection molding, or resin transfer molding and is available in North America. Applications of Resinoid 2002-4P include automotive and electrical/electronic applications.

General Information	
Filler / Reinforcement	Filler
Uses	Automotive Applications
	Electrical Parts
Appearance	Black
Forms	Pellets
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Bulk Factor	2.0		ASTM D1895
Molding Shrinkage - Flow	0.30 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
E-Scale	71		
M-Scale	106		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.2	MPa	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength (Yield)	75.8	MPa	ASTM D790
Compressive Strength	155	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)	229	°C	ASTM D648
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	11	kV/mm	ASTM D149
Arc Resistance	180	sec	ASTM D495

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