

# Resinoid 2018

Phenolic

Resinoid Engineering Corporation

## Message:

Resinoid 2018 is a Phenolic product. It can be processed by compression molding, injection molding, or resin transfer molding and is available in North America. Applications of Resinoid 2018 include automotive and electrical/electronic applications.

General Information	
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	1.35	g/cm <sup>3</sup>	ASTM D792
Bulk Factor	8.0		ASTM D1895
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.77	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	43.8	MPa	ASTM D638
Flexural Strength (Yield)	128	MPa	ASTM D790
Compressive Strength	152	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	191	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	10	kV/mm	ASTM D149
Arc Resistance	115	sec	ASTM D495
Injection	Nominal Value	Unit	
Processing (Melt) Temp	149 to 177	°C	

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