

# Resinoid 2016

Phenolic  
Resinoid Engineering Corporation

Message:

Resinoid 2016 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 2016 include automotive, electrical/electronic applications and military applications. Primary characteristic: flame rated.

General Information			
Uses	Automotive Applications		
	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	1.36	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)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
E-Scale	76		
M-Scale	108		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	57.9	MPa	ASTM D638
Flexural Strength (Yield)	82.7	MPa	ASTM D790
Compressive Strength	169	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	238	°C	ASTM D648
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	9.6	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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