



# Resinoid Engineering Corporation

<b>Compound Number 2016</b>
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7557 N. ST. LOUIS AVE . SKOKIE, IL 60076. PHONE (847) 673-1050 . FAX (847) 673-2160 . WWW.RESINOID.COM

Resinoid 2016 is a fabric reinforced, two-step phenolic molding compound. It is available in bulk form and is recommended for compression or transfer molding.

<u>MATERIAL PROPERTIES</u>	ASTM	ISO	US UNIT	SI UNIT
FORM			CHOPPED FABRIC	CHOPPED FABRIC
BULK FACTOR	D1895	171	8-10	8-10
SHRINKAGE-MOLDED (POSITIVE MOLD)	D955	2577	0.002-0.003 in/in	0.2%-0.3%
MOLDING PRESSURE –COMPRESSION			2,000-4,000 psi	14-28 MPa
MOLDING TEMPERATURE	D957		300-350°F	150-175°C
COLOR			BLACK	BLACK
<u>MECHANICAL AND PHYSICAL PROPERTIES</u>				
SPECIFIC GRAVITY	D792A	1183	1.37	1.37 <sub>23</sub> <sup>23</sup>
WATER ABSORPTION (24 HR. R.T.)	D570	62-1	0.8%	0.8%
TENSILE STRENGTH	D651	R527-3	8,400 psi	58 Mpa
FLEXURAL STRENGTH	D790	178	12,000 psi	83 MPa
IMPACT (IZOD, NOTCHED)	D256A	180/2A	2.4 ft-lb/in	12.61 kJ/m <sup>2</sup>
COMPRESSIVE STRENGTH	D695	604	24,500 psi	169 Mpa
ROCKWELL HARDNESS	D785	2039-2	M108/E76	M108
<u>ELECTRICAL PROPERTIES</u>				
DIELECTRIC STRENGTH (S.T.) DRY	D149	IEC243	245 V/mil	9.6 kV/mm
ARC RESISTANCE	D495		115 sec	115 sec
<u>THERMAL PROPERTIES</u>				
DEFLECTION TEMPERATURE	D648	75A	460°F	238°C
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696		2.2x10 <sup>-5</sup> in/in/°F	4.0x10 <sup>-5</sup> mm/mm/°C

The above values are typical of standard procedures such as ASTM. No assurance is given that the above data will be duplicated. Results can be affected by many variables including part design, storage and mold design. NO GUARANTEE, WARRANTY or REPRESENTATION, express or implied, is made for the performance or stability of Resinoid molding materials. Each user must conduct their own tests to determine the suitability of Resinoid molding materials for their particular application.