Resinoid Engineering Corporation

Compound Number 2002-4A

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Resinoid 2002-4A is a fabric reinforced, two-step phenolic molding compound. It has been modified to meet gear requirements and other stressed applications. It possesses excellent impact and flexural strength. It is available in bulk form and is recommended for compression or transfer molding.

MATERIAL PROPERTIES	**ASTM**	**ISO**	**US UNIT**	**SI UNIT**
FORM			CHOPPED FABRIC	CHOPPED FABRIC
BULK FACTOR	D1895	171	10-12	10-12
SHRINKAGE-MOLDED (POSITIVE MOLD)	D955	2577	0.002-0.004 in/in	0.2%-0.4%
MOLDING PRESSURE –COMPRESSION			2,000-4,000 psi	14-28 MPa
MOLDING TEMPERATURE	D957		300-350°F	150-175°C
COLOR			BLACK	BLACK
MECHANICAL AND PHYSICAL PROPERTIES				
SPECIFIC GRAVITY	D792A	1183	1.40	1.40_{23}^{23}
WATER ABSORPTION (24 HR. R.T.)	D570	62-1	0.6%	0.6%
TENSILE STRENGTH	D651	R527-3	8,000 psi	55 MPa
FLEXURAL STRENGTH	D790	178	14,000 psi	97 MPa
MODULUS IN FLEX	D790	178	$1.6x10^6$ psi	$1.1x10^4$ MPa
IMPACT (IZOD, NOTCHED)	D256A	180/2A	2.1 ft-lb/in	11.03 kJ/m^2
COMPRESSIVE STRENGTH	D695	604	21,700 psi	150 MPa
ELECTRICAL PROPERTIES				
DIELECTRIC STRENGTH (S.T.) DRY	D149	IEC243	325 V/mil	12.8 kV/mm
THERMAL PROPERTIES				
DEFLECTION TEMPERATURE	D648	75A	350°F	177°C
COEFFICIENT OF LINER THERMAL EXPANSION	D696		$1.0x10^{-5}$ in/in/°F	$1.8x10^{-5}$ mm/mm/°C