Resinoid Engineering Corporation

Compound Number 1328

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Resinoid 1328 is a glass reinforced, two-step phenolic molding compound. It was specifically developed for applications requiring exceptional tensile strength such as grinding wheels. Resinoid 1328 exhibits excellent electrical and thermal properties as well as dimensional stability. This material comes in pelletized from and is suitable for injection, transfer or compression molding. It can be preformed on automatic equipment.

MATERIAL PROPERTIES	**ASTM**	**ISO**	**US UNIT**	**SI UNIT**
FORM			PELLET	PELLET
COLOR			BLACK	BLACK
SHRINKAGE-MOLDED (POSITIVE MOLD)	D955	2577	0.002 in/in	0.2%
MECHANICAL AND PHYSICAL PROPERTIES				
SPECIFIC GRAVITY	D792A	1183	1.96	1.96_{23}^{23}
WATER ABSORPTION (24 HR. R.T.)	D570	62-1	0.12%	0.12%
TENSILE STRENGTH	D651	R527-3	5,066 psi	34.8 MPa
FLEXURAL STRENGTH	D790	178	12,800 psi	88 MPa
MODULUS IN FLEX	D790	178	$2.2x10^6$ psi	$1.5x10^4$ MPa
IMPACT (IZOD, NOTCHED)	D256A	180/2A	1.06 ft-lb/in	5.56 kJ/m^2
COMPRESSIVE STRENGTH	D695	604	24,138 psi	166 MPa
HARDNESS, ROCKWELL	D785	2039-2	E90/M112	M112
ELECTRICAL PROPERTIES				
DIELECTRIC STRENGTH (S.T.) DRY	D149	IEC243	333 V/mil	13.2 kV/m^2
ARC RESISTANCE	D495		204 sec	204 sec
THERMAL PROPERTIES				
DEFLECTION TEMPERATURE	D648	75A	>600°F @ 264 psi	>315°C @ 1.8 MPa
COEFFICIENT OF THERMAL EXPANSION	D696		$14.6x10^{-6}$ in/in/°F	$3.7x10^5$ mm/mm/°C