



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 form and is suitable for injection, transfer or compression molding. It can be preformed on automatic equipment.

<u>MATERIAL PROPERTIES</u>	ASTM	ISO	US UNIT	SI UNIT
FORM			PELLET	PELLET
COLOR			BLACK	BLACK
SHRINKAGE-MOLDED (POSITIVE MOLD)	D955	2577	0.002 in/in	0.2%
<u>MECHANICAL AND PHYSICAL PROPERTIES</u>				
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
<u>ELECTRICAL PROPERTIES</u>				
DIELECTRIC STRENGTH (S.T.) DRY	D149	IEC243	333 V/mil	13.2 kV/m ²
ARC RESISTANCE	D495		204 sec	204 sec
<u>THERMAL PROPERTIES</u>				
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

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.