



Resinoid Engineering Corporation

Compound
Number
1382

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Resinoid 1382 is a glass reinforced, two-step phenolic molding compound formulated for applications requiring exceptional tensile strength. It has been used to replace cast aluminum in certain applications. Resinoid 1382 exhibits excellent dimensional stability, electrical and thermal properties. It is supplied in pelletized form for use in injection, transfer, and 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
<u>MECHANICAL AND PHYSICAL PROPERTIES</u>				
SPECIFIC GRAVITY	D792A	1183	1.89	1.89 ₂₃ ²³
SHRINKAGE-MOLDED (POSITIVE MOLD)	D955	2577	0.001 in/in	0.1%
TENSILE STRENGTH	D651	R527-3	11,500 psi	79 MPa
FLEXURAL STRENGTH	D790	178	16,600 psi	114 MPa
FLEXURAL MODULUS	D790	178	2.4x10 ⁶ psi	1.7x10 ⁴ MPa
IMPACT (IZOD, NOTCHED)	D256A	180/2A	2.2 ft-lb/in	11.56 kJ/m ²
COMPRESSIVE STRENGTH	D695	604	29,600 psi	204 MPa
HARDNESS, ROCKWELL	D785	2039-2	E94/M109	M109
<u>THERMAL PROPERTIES</u>				
DEFLECTION TEMPERATURE	D648	75A	>600° F	>315° C
<u>ELECTRICAL PROPERTIES</u>				
DIELECTRIC STRENGTH (S.T.) DRY	D149	IEC243	320 V/mil	12.7 kV/m ²
ARC RESISTANCE	D495		180 sec	180 sec

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.