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## MATERIALS ENGINEERING LABORATORY DATA REPORT

## **PLENCO 07552**

Two-Stage Phenolic injection molded

PLENCO 07552 is a glass fiber reinforced novolac phenolic molding compound, exhibiting superior dimensional stability, good impact strength, and good electrical properties. Type ASTM 5948 MFH. UL recognized under component file E40654. 07552 is available in black.

		_			ASTM Test
PROPERTY	met	tric	eng	lish	Method
Form	Nodular				
Apparent Density		g/cm³	41.9	lb/ft³	D1895
Specific Gravity	1.72				D792
Mold Shrinkage*	0.0045	m/m	0.0045	in/in	D6289
Post Shrinkage 72hr 120°C	0.10				D6289
Izod Impact Notched	34.3	J/m	0.64	ft·lb/in	D256
Charpy Impact Notched	30.8	J/m		ft·lb/in	D256
Drop Ball Impact	178	J/m	3.3	ft·lb/in	Plenco
Tensile Strength	45	MPa	6,554	psi	D638
Tensile Modulus	12,311	MPa	1,786,000	psi	D638
Tensile Elongation	0.5	%			D638
Flexural Strength	77.9	MPa	11,295	psi	D790
Flexural Modulus	10,714	MPa	1,554,000	psi	D790
Compressive Strength	155	MPa	22,424	psi	D695
Heat Resistance	187	°C	369	°F	D794
Deflection Temperature 1.82MPa	263	°C	506	°F	D648
Water Absorption	0.12	%			D570
Rockwell Hardness	81	E scale			D785
Dielectric Strength short time	13.5	kV/mm	344	V/mil	D149
Dissipation Factor, 1MHz	0.039				D150
Permittivity, 1MHz	4.9				D150
Volume Resistivity	2.2E+12	ohm·cm	8.8E+11	ohm∙in	D257
ASTM Arc Resistance	184	sec			D495
Comparative Tracking Index	192	V			D3638
UL Flammability	V-0 @1	.50mm			UL 94
Oxygen Index	46.4	%			D2863
Coefficient of Thermal Expansion	3.8E-05	/°C	2.1E-05	/°F	E831
Thermal Conductivity 100°C	0.58	W/m/°C	0.34	Btu/hr/ft/°F	E1461

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## Store in cool dry place.

The Typical Values listed are results obtained from the testing of standard specimens using the stated test procedures, with said specimens molded under controlled laboratory conditions from representative samplings of the product. Although Plastics Engineering Company at all times reserves the right to make changes in the materials, suppliers and processing, the values listed as typical are those to be expected at the time of our manufacture. The final determination of the accuracy or completeness of any information, the suitability of the product for the use contemplated, the manner of its use, and the matter of any infringement of patents in use, are all the sole responsibility of the user. PLASTICS ENGINEERING COMPANY MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THIS PRODUCT, INCLUDING NO WARRANTY OF THE MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Plastics Engineering Company reserves at all times the right to discontinue the production of any or all of its products. This is an uncontrolled copy and not subject to updates.