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MATERIALS ENGINEERING LABORATORY DATA REPORT

PLENCO 04466

Two-Stage Phenolic transfer molded

PLENCO 04466 is a heat resistant, mineral and flock filled phenolic molding compound, offering excellent mechanical strength and cosmetic properties. UL recognized under component file E40654. 04466 is available in black.

PROPERTY	metric		english		ASTM Test Method
Form	Granular	-		_	
Apparent Density	0.60	g/cm³	37.7	lb/ft³	D1895
Specific Gravity	1.59				D792
Mold Shrinkage*	0.0043	m/m	0.0043	in/in	D6289
Post Shrinkage 72hr 120°C	0.21	%			D6289
Izod Impact Notched	19.4	J/m	0.36	ft·lb/in	D256
Charpy Impact Notched	21.8	J/m	0.41	ft·lb/in	D256
Drop Ball Impact	116	J/m	2.2	ft·lb/in	Plenco
Tensile Strength	52	MPa	7,568	psi	D638
Tensile Modulus	10,183	MPa	1,477,000	psi	D638
Tensile Elongation	0.6	%			D638
Flexural Strength	93.5	MPa	13,561	psi	D790
Flexural Modulus	9,792	MPa	1,420,000	psi	D790
Compressive Strength	182	MPa	26,393	psi	D695
Heat Resistance	204	°C	399	°F	D794
Deflection Temperature 1.82MPa	212	°C	414	°F	D648
Water Absorption	0.13	%			D570
Rockwell Hardness	82	E scale			D785
Dielectric Strength short time	9.6	kV/mm	245	V/mil	D149
Dissipation Factor, 1MHz	0.087				D150
Permittivity, 1MHz	6.2				D150
Volume Resistivity	2.1E+11	ohm·cm	8.3E+10	ohm·in	D257
ASTM Arc Resistance	183	sec			D495
Comparative Tracking Index	179	V			D3638
UL Flammability	V-0 @1	.50mm			UL 94
Oxygen Index	28.1	%			D2863
Coefficient of Thermal Expansion	4.3E-05	/°C	2.4E-05	/°F	E831
Thermal Conductivity 100°C	0.56	W/m/°C	0.32	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.