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MATERIALS ENGINEERING LABORATORY DATA REPORT

PLENCO 06343

Two-Stage Phenolic compression molded

PLENCO 06343 is a mica reinforced phenolic molding compound, offering for a low power factor, low electrical losses, and good electrical properties after long exposures to high humidity. UL recognized under component file E40654. 06343 is available in natural color.

PROPERTY	metric		english		ASTM Test Method
Form	Granular		0.1.9		
Apparent Density		g/cm³	53.3	lb/ft³	D1895
Specific Gravity	1.73				D792
Mold Shrinkage*	0.0029	m/m	0.0029	in/in	D6289
Post Shrinkage 72hr 120°C	0.04	%			D6289
Izod Impact Notched	16.6	J/m	0.31	ft·lb/in	D256
Charpy Impact Notched	18.3	J/m	0.34	ft·lb/in	D256
Drop Ball Impact	69	J/m	1.3	ft·lb/in	Plenco
Tensile Strength	40	MPa	5,787	psi	D638
Tensile Modulus	15,627	MPa	2,267,000	psi	D638
Tensile Elongation	0.3	%			D638
Flexural Strength	54.8	MPa	7,948	psi	D790
Flexural Modulus	12,074	MPa	1,751,000	psi	D790
Compressive Strength	169	MPa	24,439	psi	D695
Heat Resistance	225	°C	437	°F	D794
Deflection Temperature 1.82MPa	190	°C	373	°F	D648
Water Absorption	0.05	%			D570
Rockwell Hardness	71	E scale			D785
Dielectric Strength short time	17.7	kV/mm	450	V/mil	D149
Dissipation Factor, 1MHz	0.017				D150
Permittivity, 1MHz	4.6				D150
Volume Resistivity	1.5E+13	ohm·cm	6.1E+12	ohm·in	D257
ASTM Arc Resistance	188	sec			D495
Comparative Tracking Index	200	V			D3638
UL Flammability	V-0 @1	.50mm			UL 94
Oxygen Index	42.7	%			D2863
Coefficient of Thermal Expansion	2.6E-05	/°C	1.4E-05	/ºF	E831
Thermal Conductivity 100°C	0.55	W/m/°C	0.32	Btu/hr/ft/°F	E1461

Prior to molding compression electrical specimens, material is dried 30 min @ 90C, 110C preheat. Store in cool dry place.

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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.