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MATERIALS ENGINEERING LABORATORY DATA REPORT

PLENCO 06401

Two-stage Phenolic injection molded

PLENCO 06401 is a glass fiber and mineral filled two-stage phenolic molding compound. UL recognized under component file E40654. 06401 is available in black.

PROPERTY	metric		english		ASTM Test Method
Form	Briquette		City	11311	
Apparent Density		g/cm³	42.0	lb/ft³	D1895
Specific Gravity	1.72				D792
Mold Shrinkage*	0.0023	m/m	0.0023	in/in	D6289
Post Shrinkage 72hr 120°C	0.07	%			D6289
Izod Impact Notched	39.9	J/m	0.75	ft·lb/in	D256
Charpy Impact Notched	36.1	J/m	0.68	ft·lb/in	D256
Drop Ball Impact	292	J/m	5.5	ft·lb/in	Plenco
Tensile Strength	86	MPa	12,453	psi	D638
Tensile Modulus	15,144	MPa	2,196,000	psi	D638
Tensile Elongation	0.7	%			D638
Flexural Strength	165.5	MPa	24,002	psi	D790
Flexural Modulus	14,241	MPa	2,066,000	psi	D790
Compressive Strength	238	MPa	34,503	psi	D695
Heat Resistance	220	°C	427	°F	D794
Deflection Temperature 1.82MPa	209	°C	408	°F	D648
Water Absorption	0.08	%			D570
Rockwell Hardness	96	E scale			D785
Dielectric Strength short time	14.3	kV/mm	363	V/mil	D149
Dissipation Factor, 1MHz	0.030				D150
Permittivity, 1MHz	4.7				D150
Volume Resistivity	9.6E+11	ohm·cm	3.8E+11	ohm·in	D257
ASTM Arc Resistance	74	sec			D495
Comparative Tracking Index	175	V			D3638
UL Flammability	V-0 @1				UL 94
Oxygen Index		%			D2863
Coefficient of Thermal Expansion	3.8E-05		2.1E-05	/ºF	E831
Thermal Conductivity 100°C		W/m/°C		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.

^{*}Mold Shrinkage obtained under controlled laboratory conditions with relatively simple mold geometry and should be used for comparison purposes only and not for actual tool design.