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MATERIALS ENGINEERING LABORATORY DATA REPORT Plenco 06500

Two-Stage Phenolic injection molded

Plenco 06500 is a glass reinforced phenolic molding compound offering improved strength, dimensional stability, and excellent electrical properties. UL recognized under component file E40654. 06500 is available in black.

PROPERTY	metric		english		ASTM Test Method
Form	Granular				
Apparent Density	0.70	g/cm³	43.6	lb/ft³	D1895
Specific Gravity	1.76				D792
Mold Shrinkage*	0.0035	m/m	0.0035	in/in	D6289
Post Shrinkage 72hr 120°C	0.10	%			D6289
Izod Impact Notched	33.2	J/m	0.62	ft-lb/in	D256
Charpy Impact Notched	28.4	J/m	0.53	ft-lb/in	D256
Drop Ball Impact	195	J/m	3.7	ft-lb/in	Plenco
Tensile Strength	79	MPa	11,426	psi	D638
Tensile Modulus	13,255	MPa	1,922,000	psi	D638
Tensile Elongation	0.8	%			D638
Flexural Strength	123.7	MPa	17,945	psi	D790
Flexural Modulus	12,402	MPa	1,799,000	psi	D790
Compressive Strength	210	MPa	30,481	psi	D695
Heat Resistance	194	°C	382	٥F	D794
Deflection Temperature _{1.82MPa}	198	°C	388	٥F	D648
Water Absorption	0.10	%			D570
Rockwell Hardness	96	E scale			D785
Dielectric Strength short time	14.3	kV/mm	364	V/mil	D149
Dissipation Factor, 1MHz	0.031				D150
Permittivity, 1MHz	4.9				D150
Volume Resistivity	1.1E+12	ohm-cm	4.2E+11	ohm∙in	D257
ASTM Arc Resistance	155	sec			D495
Comparative Tracking Index	184	V			D3638
UL Flammability	V-0 @3	3.0mm			UL 94
Oxygen Index	34.5	%			D2863
Coefficient of Thermal Expansion	3.5E-05	/°C	1.9E-05 /°F		E831
Thermal Conductivity 100°C	0.53	W/m/ºC	0.31	Btu/hr/ft/ºF	E1461

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 typicial 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.