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MATERIALS ENGINEERING LABORATORY DATA REPORT

PLENCO 05488

Two-Stage Phenolic injection molded

PLENCO 05488 is a woodflour and graphite filled phenolic molding compound offering improved abrasion resistance. UL recognized under component file E40654. 05488 is available in brown. 05488 is not recommended for electrical insulating applications.

PROPERTY	met	tric	eng	lieh	ASTM Test Method
Form	Granular	ii iC	eng	11311	Wethod
Apparent Density		g/cm³	40.6	lb/ft³	D1895
Specific Gravity	1.45				D792
Mold Shrinkage*	0.0083	m/m	0.0083	in/in	D6289
Post Shrinkage 72hr 120°C	0.29	%			D6289
Izod Impact Notched	17.6	J/m	0.33	ft·lb/in	D256
Charpy Impact Notched	17.9	J/m	0.34	ft·lb/in	D256
Drop Ball Impact	102	J/m	1.9	ft·lb/in	Plenco
Tensile Strength	62	MPa	8,971	psi	D638
Tensile Modulus	8,326	MPa	1,208,000	psi	D638
Tensile Elongation	0.9	%			D638
Flexural Strength	91.6	MPa	13,284	psi	D790
Flexural Modulus	7,702	MPa	1,117,000	psi	D790
Compressive Strength	190	MPa	27,608	psi	D695
Heat Resistance	200	°C	391	°F	D794
Deflection Temperature 1.82MPa	154	°C	309	°F	D648
Water Absorption	0.26	%			D570
Rockwell Hardness	82	E scale			D785
Dielectric Strength short time		kV/mm		V/mil	D149
Dissipation Factor, 1MHz					D150
Permittivity, 1MHz					D150
Volume Resistivity		ohm·cm		ohm∙in	D257
ASTM Arc Resistance		sec			D495
Comparative Tracking Index		V			D3638
UL Flammability	V-0 @3	.00mm			UL 94
Oxygen Index	27.5	%			D2863
Coefficient of Thermal Expansion	4.6E-05	/°C 2.6E-05/°F		E831	
Thermal Conductivity 100°C	0.51	W/m/°C	0.29	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.