

www.plenco.com

DATA REPORT CS ENGINEERING COMPANY 3518 LAKESHORE ROAD SHEBOYGAN WISCONSIN 920,458,2121 fax 920,458,1923 True Ctarre Dispractice

Two-Stage Phenolic compression molded

MATERIALS ENGINEERING LABORATORY

Plenco 03554 is an organic reinforced phenolic molding compound modified with PTFE to offer improved coefficient of friction values. 03554 is available in black. It is UL listed. 03554 is a re-number of 06554 formulation.

PROPERTY	metri	ic	eng	lish	ASTM Test Method
Form	Granular				
Apparent Density	0.55 g	g/cm³	34.6	lb/ft³	D1895
Specific Gravity	1.43				D792
Mold Shrinkage*	0.0039 n	m/m	0.0039	in/in	D6289
Post Shrinkage 72hr 120°C	0.16 %	%			D6289
Izod Impact Notched	23.7 J	J/m	0.44	ft-lb/in	D256
Charpy Impact Notched	24.9 J	J/m	0.47	ft-lb/in	D256
Drop Ball Impact	163 J	J/m	3.1	ft-lb/in	Plenco
Tensile Strength	55 N	MРа	8,023	psi	D638
Tensile Modulus	8,700 N	MРа	1,262,000	psi	D638
Tensile Elongation	0.7 %	%			D638
Flexural Strength	88.6 N	MРа	12,847	psi	D790
Flexural Modulus	7,968 N	MРа	1,156,000	psi	D790
Compressive Strength	171 N	MРа	24,753	psi	D695
Heat Resistance	190 °	C	374	٥F	D794
Deflection Temperature _{1.82MPa}	164 °	C	326	٥F	D648
Water Absorption	0.42 %	%			D570
Rockwell Hardness	81 E	scale			D785
Dielectric Strength short time	15.3 k	κV/mm	389	V/mil	D149
Dissipation Factor, 1MHz	0.044				D150
Permittivity, 1MHz	4.6				D150
Volume Resistivity	1.3E+12 c	ohm-cm	5.2E+11	ohm-in	D257
ASTM Arc Resistance	110 s	sec			D495
Comparative Tracking Index	179 \	/			D3638
UL Flammability	HB @1.5	5mm			UL 94
Oxygen Index	25.0 %	%			D2863
Coefficient of Thermal Expansion	9.8E-05 /	°C	5.5E-05	/ºF	E831
Thermal Conductivity 100°C	0.38 V	N/m/ºC	0.22	Btu/hr/ft/ºF	E1461

Prior to molding compression electrical specimens, material is dried 30 min @ 90C, 110C preheat. 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.