

SHEBOYGAN WISCONSIN 920.458.2121 fax 920.458.1923

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MATERIALS ENGINEERING LABORATORY DATA REPORT

PLENCO 02535

Two-Stage Phenolic injection molded

PLENCO 02535 is a general purpose, organic filled phenolic molding compound offering optimized cure characteristics and excellent electrical properties. UL recognized under component file E40654. 02535 is available in black. 02535 was qualified under military specification MIL-M-14 (superseded by ASTM D-5948) TYPE CFG and batches can, if requested and paid for, be tested for certification to the standard.

PROPERTY		luit a		l'ab	ASTM Test
PROPERTY Form	met Granular	ric	eng	lisn	Method
Apparent Density		g/cm³	38.5	lb/ft³	D1895
Specific Gravity	1.38	grom	30.3	10/11	D792
Mold Shrinkage*	0.0109	m/m	0.0109	in/in	D6289
Post Shrinkage 72hr 120°C	0.43		0.0109	111/111	D6289
Izod Impact Notched	18.2		0.34	ft·lb/in	D0203
Charpy Impact Notched	18.5			ft·lb/in	D256
Drop Ball Impact	10.5	J/m		ft·lb/in	Plenco
Tensile Strength	56	MPa	8,177	psi	D638
Tensile Modulus	7,777	MPa	1,128,000	psi	D638
Tensile Elongation	0.9		1,120,000	ры	D638
Flexural Strength		MPa	11,524	psi	D790
Flexural Modulus	6,945	MPa	1,007,000	psi	D790
Compressive Strength	201	MPa	29,099	psi	D695
Heat Resistance	195	°C	384	°F	D794
Deflection Temperature 1.82MPa	159	°C	319	°F	D648
Water Absorption	0.41	%		<u> </u>	D570
Rockwell Hardness	85	E scale			D785
Dielectric Strength short time		kV/mm	252	V/mil	D149
Dissipation Factor, 1MHz	0.056				D150
Permittivity, 1MHz	4.8				D150
Volume Resistivity	2.9E+11	ohm·cm	1.2E+11	ohm∙in	D257
ASTM Arc Resistance		sec			D495
Comparative Tracking Index	159				D3638
UL Flammability	HB @1				UL 94
Oxygen Index	25.9				D2863
Coefficient of Thermal Expansion	6.0E-05		3.3E-05	/°F	E831
Thermal Conductivity 100°C	0.37	W/m/°C	0.21	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.