

PLASTICS ENGINEERING COMPANY

3518 LAKESHORE ROAD SHEBOYGAN WISCONSIN 920.458.2121 fax 920.458.1923

www.plenco.com

## MATERIALS ENGINEERING LABORATORY DATA REPORT **Plenco 02300** Two-Stage Phenolic

transfer molded

Plenco 02300 is a general purpose organic filled molding compound formulated to offer excellent processability while maintaining mechanical strength values. UL recognized under component file E40654. 02300 is available in black, brown, red, or green.

				P - 1	ASTM Test
PROPERTY Form	met Granular	ric	eng	lisn	Method
		g/cm <sup>3</sup>	26.7	lb/ft <sup>3</sup>	D1895
Apparent Density	1.37	g/cm*	30.7	ID/II°	D792
Specific Gravity	0.0079	m/m	0.0079	in/in	-
Mold Shrinkage* Post Shrinkage 72hr 120°C	0.0079		0.0079	1(1/1(1	D6289 D6289
•	17.1		0.00	ft-lb/in	
Izod Impact Notched					D256
Charpy Impact Notched	19.0			ft-lb/in	D256
Drop Ball Impact		J/m		ft·lb/in	Plenco
Tensile Strength		MPa	7,499	psi	D638
Tensile Modulus	,	MPa	1,163,000	psi	D638
Tensile Elongation	0.7				D638
Flexural Strength	87.8		12,739	psi	D790
Flexural Modulus	,	MPa	1,082,000	psi	D790
Compressive Strength		MPa	30,669	psi	D695
Heat Resistance	197	°C	387	°F	D794
Deflection Temperature 1.82MPa	162	°C	324	°F	D648
Water Absorption					D570
Rockwell Hardness	88	E scale			D785
Dielectric Strength short time	11.4	kV/mm	290	V/mil	D149
Dissipation Factor, 1MHz	0.058				D150
Permittivity, 1MHz	5.0				D150
Volume Resistivity	6.9E+11	ohm∙cm	2.7E+11	ohm∙in	D257
ASTM Arc Resistance	128	sec			D495
Comparative Tracking Index	157	V			D3638
UL Flammability	HB @1	.5mm			UL 94
Oxygen Index	25.8	%			D2863
Coefficient of Thermal Expansion	7.6E-05	/⁰C	4.2E-05 /ºF		E831
Thermal Conductivity 100°C	0.37	W/m/ºC	0.21	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 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. ver 080624