

Plenco 02300 (Compression)

Phenolic
Plastics Engineering Co.

PROSPECTOR[®]

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Technical Data

Product Description

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.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E40654-100708439
Search for UL Yellow Card	• Plastics Engineering Co. • Plenco
Availability	• North America
Filler / Reinforcement	• Organic
Features	• Excellent Processability • General Purpose • Good Strength
Uses	• General Purpose
UL File Number	• E40654
Appearance	• Black • Green • Brown • Red
Forms	• Granules
Processing Method	• Compression Molding

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.39 g/cm ³	ASTM D792
Apparent (Bulk) Density	0.60 g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.43 %	ASTM D6289
Water Absorption (24 hr)	0.37 %	ASTM D570
Post Shrinkage - 72hr (120°C)	0.19 %	ASTM D6289
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	9240 MPa	ASTM D638
Tensile Strength	64.0 MPa	ASTM D638
Tensile Elongation (Break)	0.80 %	ASTM D638
Flexural Modulus	8700 MPa	ASTM D790
Flexural Strength	103 MPa	ASTM D790
Compressive Strength	228 MPa	ASTM D695
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	19.1 J/m	ASTM D256
Notched Izod Impact	19 J/m	ASTM D256
Drop Ball Impact	116 J/m	Internal Method
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (E-Scale)	94	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	171 °C	ASTM D648
Continuous Use Temperature	201 °C	ASTM D794
CLTE - Flow	6.6E-5 cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.35 W/m/K	ASTM E1461
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.8E+12 ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	15 kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.80	ASTM D150
Dissipation Factor (1 MHz)	0.040	ASTM D150
Arc Resistance	95.0 sec	ASTM D495
Comparative Tracking Index	165 V	ASTM D3638



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Flammability	Nominal Value Unit	Test Method
Flame Rating (1.5 mm)	HB	UL 94
Oxygen Index	26 %	ASTM D2863

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

Plastics Engineering Co.

Sheboygan, Sheboygan USA

Telephone: 920-458-2121

Web: <http://www.plenco.com/>

Distributor

Please contact the supplier to find a distributor for Plenco 02300 (Compression)

