Plenco 06401 (Compression)

Phenolic

Plastics Engineering Co.

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Technical Data

Product Description	
PLENCO 06401 is a glass fiber and mineral filled two-stage phenolic molding compound. UL recognized under component file E40654. 06401 is available in black.	

General		
Material Status	• Commercial: Active	
Literature [1]	• Technical Datasheet (English)	
UL Yellow Card [2]	• E40654-231621	
Search for UL Yellow Card	• Plastics Engineering Co. • Plenco	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber	• Mineral
UL File Number	• E40654	
Appearance	• Black	
Forms	• Briquette	
Processing Method	• Compression Molding	

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.75	g/cm³	ASTM D792
Apparent (Bulk) Density	0.75	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.14	%	ASTM D6289
Water Absorption (24 hr)	0.070	%	ASTM D570
Post Shrinkage - 72hr (120°C)	0.050	%	ASTM D6289
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	14700	MPa	ASTM D638
Tensile Strength	73.0	MPa	ASTM D638
Tensile Elongation (Break)	0.60	%	ASTM D638
Flexural Modulus	13500	MPa	ASTM D790
Flexural Strength	122	MPa	ASTM D790
Compressive Strength	255	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	39.4	J/m	ASTM D256
Notched Izod Impact	39	J/m	ASTM D256
Drop Ball Impact	273	J/m	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	98		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	228	°C	
Continuous Use Temperature	227	°C	ASTM D794
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM E831
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	3.1E+12	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	15	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.20		ASTM D150
Dissipation Factor (1 MHz)	0.025		ASTM D150
Arc Resistance	104	sec	ASTM D495
Comparative Tracking Index	180	V	ASTM D3638
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.5 mm)	V-0		UL 94

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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 06401 (Compression)

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