Plenco 06500 (Injection)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 06500 is a glass reinforced phenolic molding compound offering improved strength, dimensional stability, and excellent electrical properties. UL recognized under component file E40654. 06500 is available in black.

General Information			
UL YellowCard	E40654-231622		
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability Good electrical performance Good strength		
UL File Number	E40654		
Appearance	Black		
Forms	Blank		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.77	g/cm³	ASTM D792
Apparent Density	0.72	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.32	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	96		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	13500	MPa	ASTM D638
Tensile Strength	79.0	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	12600	MPa	ASTM D790
Flexural Strength	132	MPa	ASTM D790
Compressive Strength	213	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	29.0	J/m	ASTM D256
Notched Izod Impact	34	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	199	°C	ASTM D648
Continuous Use Temperature	193	°C	ASTM D794
CLTE - Flow	3.5E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.54	W/m/K	ASTM C177

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.4E+11	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
-- [1]	20	kV/mm	ASTM D149
-- [2]	8.4	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D150
Dissipation Factor (1 MHz)	0.033		ASTM D150
Arc Resistance	160	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Oxygen Index	35	%	ASTM D2863

Additional Information
The value listed as Thermal Conductivity, ASTM C177 was tested according to the ASTM E1461 standard.The value listed as Comparative Tracking Index, UL 746 was tested according to ASTM D3638.The value listed as Mold Shrink, Linear-Flow, ASTM D955 was tested according to the ASTM D6289 standard.Post Shrinkage, ASTM D6289, 72hr, 120°C: 0.08%Drop Ball Impact, PLENCO Method: 177 J/m

Injection	Nominal Value	Unit
Suggested Shot Size	20 - 80	%
Rear Temperature	66.0 - 82.0	°C
Front Temperature	82.0 - 99.0	°C
Processing (Melt) Temp	104 - 115	°C
Mold Temperature	165 - 182	°C
Injection Pressure	6.20 - 11.0	MPa
Back Pressure	0.300	MPa
Screw Speed	< 60	rpm
Cushion	3.00	mm

Injection instructions
Injection Time: 3-8 sec

NOTE	
1.	Method A (short time)
2.	Method B (step by step)

Recommended distributors for this material

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