Plenco 07500 (Transfer)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 07500 is an organic reinforced phenolic molding compound, offering improved mechanical strength and excellent cosmetic characteristics. Type ASTM 5948 CFG and UL recognized under component file E40654. 07500 is available in black, brown, or red color.

General Information			
UL YellowCard	E40654-231633	E40654-231634	
Filler / Reinforcement	Organic filler		
Features	Good strength		
UL File Number	E40654		
Appearance	Brown Black Red		
Forms	Particles		
Processing Method	Resin transfer molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.37	g/cm³	ASTM D792
Apparent Density	0.52	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.70	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	90		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7730	MPa	ASTM D638
Tensile Strength	52.0	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	7340	MPa	ASTM D790
Flexural Strength	80.8	MPa	ASTM D790
Compressive Strength	218	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	20.3	J/m	ASTM D256
Notched Izod Impact	20	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	166	°C	ASTM D648
Continuous Use Temperature	200	°C	ASTM D794
CLTE - Flow	5.8E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.36	W/m/K	ASTM C177

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.7E+11	ohms·cm	ASTM D257
Dielectric Strength [1]	11	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.80		ASTM D150
Dissipation Factor (1 MHz)	0.051		ASTM D150
Arc Resistance	128	sec	ASTM D495
Comparative Tracking Index (CTI)	150	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	HB		UL 94
Oxygen Index	25	%	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: 0.25%Drop Ball Impact, PLENCO Method: 118 J/m

Injection	Nominal Value	Unit
Mold Temperature	165 - 182	°C
Back Pressure	0.300	MPa
Screw Speed	< 60	rpm

Injection instructions

Transfer Time: 3-8 secTransfer Pressure: 5.5-6.9 MPaPreheating Temperature: 104-115°C

NOTE

1. Method A (short time)

Recommended distributors for this material

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