Plenco 07507 (Injection)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 07507 is an organic reinforced phenolic molding compound offering improved dimensional stability under humid conditions. 07507 offers excellent resistance to degradation from detergent solutions at elevated temperature. UL recognized under component file E40654. 07507 is available in black.

General Information			
UL YellowCard	E40654-231635		
Filler / Reinforcement	Organic filler		
Features	Good dimensional stability Detergent resistance		
UL File Number	E40654		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.52	g/cm³	ASTM D792
Apparent Density	0.62	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.63	%	ASTM D955
Water Absorption (24 hr)	0.44	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	57		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7910	MPa	ASTM D638
Tensile Strength	53.0	MPa	ASTM D638
Tensile Elongation (Break)	1.1	%	ASTM D638
Flexural Modulus	7170	MPa	ASTM D790
Flexural Strength	76.3	MPa	ASTM D790
Compressive Strength	157	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	19.6	J/m	ASTM D256
Notched Izod Impact	18	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	186	°C	ASTM D648
Continuous Use Temperature	204	°C	ASTM D794
CLTE - Flow	3.7E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.46	W/m/K	ASTM C177

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.3E+11	ohms·cm	ASTM D257
Dielectric Strength [1]	8.0	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	7.00		ASTM D150
Dissipation Factor (1 MHz)	0.17		ASTM D150
Arc Resistance	177	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-1		UL 94
Oxygen Index	31	%	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: 0.42%Drop Ball Impact, PLENCO Method: 125 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)

Recommended distributors for this material

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