

# Plenco 07507 (Compression)

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	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.60	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	0.37	%	ASTM D955
Water Absorption (24 hr)	0.41	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	72		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9360	MPa	ASTM D638
Tensile Strength	54.0	MPa	ASTM D638
Tensile Elongation (Break)	0.76	%	ASTM D638
Flexural Modulus	8600	MPa	ASTM D790
Flexural Strength	74.3	MPa	ASTM D790
Compressive Strength	177	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20.8	J/m	ASTM D256
Notched Izod Impact	19	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	216	°C	ASTM D648
Continuous Use Temperature	207	°C	ASTM D794
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.6E+13	ohms · cm	ASTM D257

Dielectric Strength <sup>1</sup>	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.80		ASTM D150
Dissipation Factor (1 MHz)	0.051		ASTM D150
Arc Resistance	183	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

#### Additional Information

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: 0.38% Drop Ball Impact, PLENCO Method: 110 J/m

Injection	Nominal Value	Unit
Drying Temperature	90.0	°C
Drying Time	0.50	hr
Mold Temperature	165 - 182	°C
Back Pressure	0.300	MPa
Screw Speed	< 60	rpm

#### Injection instructions

Mold Close Time: 3-8 sec

#### NOTE

1. Method A (short time)

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