

# Plenco 07552 (Transfer)

Phenolic

Plastics Engineering Co.

## Message:

PLENCO 07552 is a glass fiber reinforced novolac phenolic molding compound, exhibiting superior dimensional stability, good impact strength, and good electrical properties. Type ASTM 5948 MFH. UL recognized under component file E40654. 07552 is available in black.

General Information			
UL YellowCard	E40654-231636		
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	Impact resistance, good		
	Good electrical performance		
Agency Ratings	ASTM D 5948, Type MFH		
UL File Number	E40654		
Appearance	Black		
Forms	Tumor		
Processing Method	Resin transfer molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm³	ASTM D792
Apparent Density	0.71	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.14	%	ASTM D955
Water Absorption (24 hr)	0.090	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	78		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13100	MPa	ASTM D638
Tensile Strength	57.0	MPa	ASTM D638
Tensile Elongation (Break)	0.60	%	ASTM D638
Flexural Modulus	12800	MPa	ASTM D790
Flexural Strength	102	MPa	ASTM D790
Compressive Strength	168	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	62.0	J/m	ASTM D256
Notched Izod Impact	57	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	280	°C	ASTM D648
Continuous Use Temperature	225	°C	ASTM D794
CLTE - Flow	4.2E-5	cm/cm/°C	ASTM E831

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.3E+12	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	14	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D150
Dissipation Factor (1 MHz)	0.033		ASTM D150
Arc Resistance	184	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Oxygen Index	46	%	ASTM D2863

#### 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: 0.07% Drop Ball Impact, PLENCO Method: 227 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 sec Transfer Pressure: 5.5-6.9 MPa Preheating Temperature: 104-115°C

#### NOTE

1. Method A (short time)

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#### Recommended distributors for this material

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