

# Plenco 07579 (Compression)

Phenolic

Plastics Engineering Co.

## Message:

PLENCO 07579 is a fast curing, woodflour filled, novolac phenolic molding compound, formulated for industrial applications that do not require a smooth finish. UL recognized under component file E40654. 07579 is available in black.

General Information			
UL YellowCard	E40654-231638		
Filler / Reinforcement	Wood flour		
Features	The surface finish is not smooth. Fast curing		
Uses	Industrial application		
UL File Number	E40654		
Forms	Particles		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.60	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	0.42	%	ASTM D955
Water Absorption (24 hr)	0.64	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9240	MPa	ASTM D638
Tensile Strength	45.0	MPa	ASTM D638
Tensile Elongation (Break)	0.50	%	ASTM D638
Flexural Modulus	8390	MPa	ASTM D790
Flexural Strength	76.1	MPa	ASTM D790
Compressive Strength	193	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	24.9	J/m	ASTM D256
Notched Izod Impact	24	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	179	°C	ASTM D648
Continuous Use Temperature	187	°C	ASTM D794
CLTE - Flow	7.5E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms · cm	ASTM D257

Dielectric Strength <sup>1</sup>	12	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.10		ASTM D150
Dissipation Factor (1 MHz)	0.046		ASTM D150
Arc Resistance	115	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (5.10 mm)	V-1		UL 94
Oxygen Index	25	%	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: 0.27% Drop Ball Impact, PLENCO Method: 175 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

- Method A (short time)

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