

# Plenco 02000 (Injection)

Phenolic

Plastics Engineering Co.

## Message:

PLENCO 02000 is a versatile general purpose, organic filled phenolic molding compound, offering optimum cure characteristics and an excellent balance of molding properties. UL recognized under component file E40654. 02000 is available in black.

General Information			
UL YellowCard	E40654-231583		
Filler / Reinforcement	Organic filler		
Features	Fast curing		
	General		
Uses	General		
UL File Number	E40654		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.59	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	1.0	%	ASTM D955
Water Absorption (24 hr)	0.32	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7620	MPa	ASTM D638
Tensile Strength	57.0	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	6820	MPa	ASTM D790
Flexural Strength	80.8	MPa	ASTM D790
Compressive Strength	198	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	17.9	J/m	ASTM D256
Notched Izod Impact	15	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	155	°C	ASTM D648
Continuous Use Temperature	198	°C	ASTM D794
CLTE - Flow	5.1E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	2.3E+11	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	8.4	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.40		ASTM D150
Dissipation Factor (1 MHz)	0.059		ASTM D150
Arc Resistance	134	sec	ASTM D495
Comparative Tracking Index (CTI)	150	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-1		UL 94
Oxygen Index	29	%	ASTM D2863

#### Additional Information

The value listed as Mold Shrink, Linear-Flow, ASTM D955 was tested according to the ASTM D6289 standard. The value listed as Comparative Tracking Index, UL 746 was tested according to ASTM D3638. Post Shrinkage, ASTM D6289, 72hr, 120°C: 0.38% Heat Resistance, ASTM D794: 198°C Drop Ball Impact, PLENCO Method: 94 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

- Method A (short time)

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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