# Plenco 04568 (Compression)

## Phenolic

Plastics Engineering Co.

## Message:

PLENCO 04568 is a heat resistant, mineral and flock filled, phenolic molding compound, formulated to provide thermal oxidation stability along with excellent dimensional stability. 04568 is available in black.

General Information				
Filler / Reinforcement	Mineral filler			
	Soft filling			
Features	Good dimensional stability			
	Antioxidation			
	Heat resistance, high			
Appearance	Black			
Forms	Particles			
Processing Method	Compression molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.56	g/cm³	ASTM D792	
Apparent Density	0.61	g/cm³	ASTM D1895	
Molding Shrinkage - Flow	0.30	%	ASTM D955	
Water Absorption (24 hr)	0.14	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (E-Scale)	91		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	10500	MPa	ASTM D638	
Tensile Strength	51.0	MPa	ASTM D638	
Tensile Elongation (Break)	0.60	%	ASTM D638	
Flexural Modulus	9440	MPa	ASTM D790	
Flexural Strength	80.5	MPa	ASTM D790	
Compressive Strength	189	MPa	ASTM D695	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength	21.1	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)	209	°C	ASTM D648	
Continuous Use Temperature	216	°C	ASTM D794	
CLTE - Flow	5.1E-5	cm/cm/°C	ASTM E831	
Electrical	Nominal Value	Unit	Test Method	

Volume Resistivity	3.6E+12	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
1	11	kV/mm	ASTM D149
2	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	6.00		ASTM D150
Dissipation Factor (1 MHz)	0.048		ASTM D150
Arc Resistance	172	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	42	%	ASTM D2863
Additional Information			

#### 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: 0.14% Drop Ball Impact, PLENCO Method: 104 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	МРа	
Screw Speed	< 60	rpm	
Injection instructions			
Mold Close Time: 3-8 sec			
NOTE			
1.	Method A (short time)		

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Method B (step by step)

### Recommended distributors for this material

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