

# Plenco 06301 (Injection)

Phenolic  
Plastics Engineering Co.

Message:

PLENCO 06301 is an inorganic reinforced phenolic molding compound, offering excellent heat resistance, dimensional stability, and processability as required for typical automotive applications. It is not intended for electrical insulating applications. 06301 is available in black.

General Information			
Filler / Reinforcement	Filler		
Features	Good dimensional stability		
	Workability, good		
	Heat resistance, high		
Uses	Application in Automobile Field		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.65	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	0.78	%	ASTM D955
Water Absorption (24 hr)	0.23	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9510	MPa	ASTM D638
Tensile Strength	57.0	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	8360	MPa	ASTM D790
Flexural Strength	87.8	MPa	ASTM D790
Compressive Strength	180	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	18.5	J/m	ASTM D256
Notched Izod Impact	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	168	°C	ASTM D648
Continuous Use Temperature	201	°C	ASTM D794
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.54	W/m/K	ASTM C177
Flammability	Nominal Value	Unit	Test Method

Oxygen Index	32	%	ASTM D2863
Additional Information			
The value listed as Thermal Conductivity, ASTM C177 was tested according to the ASTM E1461 standard.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: 0.28%Drop Ball Impact, PLENCO Method: 99 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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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



WECHAT