

Plenco 04504 (Compression)

Phenolic

Plastics Engineering Co.

Message:

Plenco 04504 is a renumber of Plaslok 504. Plenco 04504 is a two-stage, mineral and cellulose-filled phenolic molding compound having better impact and heat resistance than general purpose molding compounds. Since it also has good electrical properties, it has found use in a wide variety of wiring device applications. It is UL recognized under file E40654. 04504 is available in black.

General Information			
UL YellowCard	E40654-231612		
Filler / Reinforcement	Mineral filler		
	Fiber filler		
Features	Impact resistance, good		
	Good electrical performance		
	Heat resistance, medium		
Uses	Wire and cable applications		
UL File Number	E40654		
Appearance	Black		
Forms	Particles		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Apparent Density	0.66	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.28	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11300	MPa	ASTM D638
Tensile Strength	49.0	MPa	ASTM D638
Tensile Elongation (Break)	0.50	%	ASTM D638
Flexural Modulus	9810	MPa	ASTM D790
Flexural Strength	73.6	MPa	ASTM D790
Compressive Strength	183	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20.7	J/m	ASTM D256
Notched Izod Impact	17	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	191	°C	ASTM D648
Continuous Use Temperature	200	°C	ASTM D794
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+12	ohms·cm	ASTM D257
Dielectric Strength ¹	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.10		ASTM D150
Dissipation Factor (1 MHz)	0.044		ASTM D150
Arc Resistance	171	sec	ASTM D495
Comparative Tracking Index (CTI)	200	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
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: 0.13%Drop Ball Impact, PLENCO Method: 98 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			
1.	Method A (short time)		

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