Plenco 04548 (Injection)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 04548 is a heat resistant mineral filled phenolic molding compound, offering fast cure rates and hot rigidity. Type ASTM 5948 CFG, and UL recognized under component file E40654. 04548 is available in black and brown.

General Information			
UL YellowCard	E40654-231616		
Filler / Reinforcement	Mineral filler		
Features	Fast curing Heat resistance, high		
Agency Ratings	ASTM D 5948, Type CFG		
UL File Number	E40654		
Appearance	Brown Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.48	g/cm³	ASTM D792
Apparent Density	0.66	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.87	%	ASTM D955
Water Absorption (24 hr)	0.24	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	79		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8300	MPa	ASTM D638
Tensile Strength	54.0	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	7790	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Compressive Strength	183	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	18.1	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)	156	°C	ASTM D648
Continuous Use Temperature	202	°C	ASTM D794

CLTE - Flow	5.6E-5	cm/cm/°C	ASTM E831
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.4E+11	ohms·cm	ASTM D257
Dielectric Strength [1]	11	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D150
Dissipation Factor (1 MHz)	0.054		ASTM D150
Arc Resistance	157	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-0		UL 94
Oxygen Index	27	%	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: 0.34%Drop Ball Impact, PLENCO Method: 90 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	
NOTE			
1.	Method A (short time)		

Recommended distributors for this material

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