Plenco 03509 (Transfer)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 03509 is a mineral and flock filled phenolic molding compound offering excellent electrical properties, dimensional stability, and improved heat resistance. UL recognized under component file E40654. 03509 is available in black or brown.

General Information				
UL YellowCard	E40654-231597			
Filler / Reinforcement	Mineral filler			
	Soft filling			
Features	Good dimensional stability			
	Good electrical performance			
	Heat resistance, high			
	near resistance, myn			
UL File Number	E40654			
Appearance	Brown			
	Black			
Forms	Particles			
Processing Method	Resin transfer molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.60	g/cm³	ASTM D792	
Apparent Density	0.64	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)	85		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	10700	MPa	ASTM D638	
Tensile Strength	61.0	MPa	ASTM D638	
Tensile Elongation (Break)	0.80	%	ASTM D638	
Flexural Modulus	9840	MPa	ASTM D790	
Flexural Strength	99.5	MPa	ASTM D790	
Compressive Strength	201	MPa	ASTM D695	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength	22.1	J/m	ASTM D256	
Notched Izod Impact	20	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	

Deflection Temperature Under Load (1.8			
MPa, Unannealed)	194	°C	ASTM D648
Continuous Use Temperature	204	°C	ASTM D794
CLTE - Flow	4.7E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.3E+11	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
1	16	kV/mm	ASTM D149
²	12	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.30		ASTM D150
Dissipation Factor (1 MHz)	0.041		ASTM D150
Arc Resistance	161	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Oxygen Index	38	%	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: 0.12% Heat Resistance, ASTM D794: 204°CDrop Ball Impact, PLENCO Method: 126 J/m

NOTE	
1.	Method A (short time)
2.	Method B (step by step)

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