Plenco 04599 (Compression)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 04599 is a mineral filled, phenolic molding compound offering excellent heat resistance and dimensional stability, typically required for automotive ashtray applications. 04599 is formulated to provide improved cosmetic characteristics and mechanical strength properties. 04599 is available in black

General Information				
Filler / Reinforcement	Mineral filler			
Features	Good dimensional stability			
	Good strength			
	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/cm³	ASTM D792	
Apparent Density	0.62	g/cm³	ASTM D1895	
Molding Shrinkage - Flow	0.38	%	ASTM D955	
Water Absorption (24 hr)	0.21	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (E-Scale)	89		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	10100	MPa	ASTM D638	
Tensile Strength	62.0	MPa	ASTM D638	
Tensile Elongation (Break)	0.70	%	ASTM D638	
Flexural Modulus	9430	MPa	ASTM D790	
Flexural Strength	83.1	MPa	ASTM D790	
Compressive Strength	216	MPa	ASTM D695	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength	19.5	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)	204	°C	ASTM D648	
Continuous Use Temperature	217	°C	ASTM D794	
Electrical	Nominal Value	Unit	Test Method	
Volume Resistivity	1.4E+12	ohms·cm	ASTM D257	

Dielectric Strength ¹	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.80		ASTM D150
Dissipation Factor (1 MHz)	0.077		ASTM D150
Arc Resistance	159	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Additional Information			

The value listed as Comparative Tracking Index, UL 746 was tested according to ASTM D3638.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: 0.18%Drop Ball Impact, PLENCO Method: 85 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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