Plenco 04485 (Compression)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 04485 is a mineral filled phenolic molding compound offering excellent heat resistance, electrical resistance, and dimensional stability. UL recognized under component file E40654. 04485 is available in black.

General Information				
UL YellowCard	E40654-231611			
Filler / Reinforcement	Mineral filler			
Features	Good dimensional stability			
	Heat resistance, high			
UL File Number	E40654			
Appearance	Black			
Forms	Particles			
Processing Method	Compression molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.47	g/cm³	ASTM D792	
Apparent Density	0.62	g/cm³	ASTM D1895	
Molding Shrinkage - Flow	0.36	%	ASTM D955	
Water Absorption (24 hr)	0.21	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (E-Scale)	88		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	8530	MPa	ASTM D638	
Tensile Strength	53.0	MPa	ASTM D638	
Tensile Elongation (Break)	0.60	%	ASTM D638	
Flexural Modulus	8190	MPa	ASTM D790	
Flexural Strength	78.3	MPa	ASTM D790	
Compressive Strength	206	MPa	ASTM D695	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength	19.9	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)	192	°C	ASTM D648	
Continuous Use Temperature	204	°C	ASTM D794	
CLTE - Flow	5.3E-5	cm/cm/°C	ASTM E831	
Thermal Conductivity (100°C)	0.44	W/m/K	ASTM C177	
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Volume Resistivity	3.2E+12	ohms·cm	ASTM D257
Dielectric Strength ¹	12	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.60		ASTM D150
Dissipation Factor (1 MHz)	0.044		ASTM D150
Arc Resistance	157	sec	ASTM D495
Comparative Tracking Index (CTI)	150	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-1		UL 94
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. The value listed as Comparative Tracking Index, UL 746 was tested according to ASTM D3638. Post Shrinkage, ASTM D6289, 72hr, 120°C: 0.17% Drop Ball Impact, PLENCO Method: 95 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)

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