

Plenco 03356 (Compression)

Phenolic
Plastics Engineering Co.

Message:

PLENCO 03356 is a mineral filled phenolic molding compound offering excellent arc resistance, comparative tracking, and flame resistant properties. UL recognized under component file E40654. 03356 is available in black.

General Information			
UL YellowCard	E40654-231595		
Filler / Reinforcement	Mineral filler		
Features	Anti-arc		
	Flame retardancy		
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	0.68	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.23	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11100	MPa	ASTM D638
Tensile Strength	50.0	MPa	ASTM D638
Tensile Elongation (Break)	0.50	%	ASTM D638
Flexural Modulus	9990	MPa	ASTM D790
Flexural Strength	72.0	MPa	ASTM D790
Compressive Strength	164	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20.6	J/m	ASTM D256
Notched Izod Impact	18	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	195	°C	ASTM D648
Continuous Use Temperature	211	°C	ASTM D794
Thermal Conductivity (100°C)	0.62	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+13	ohms · cm	ASTM D257

Dielectric Strength			ASTM D149
-- 1	16	kV/mm	ASTM D149
-- 2	14	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.40		ASTM D150
Dissipation Factor (1 MHz)	0.036		ASTM D150
Arc Resistance	184	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

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. The value listed as Thermal Conductivity, ASTM C177 was tested according to the ASTM E1461 standard. Post Shrinkage, ASTM D6289, 72hr, 120°C: 0.08% Heat Resistance, ASTM D794: 211°C Drop Ball Impact, PLENCO Method: 115 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

- Method A (short time)
- Method B (step by step)

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