## Plenco 03356 (Injection)

## 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	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm³	ASTM D792
Apparent Density	0.66	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.82	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	77		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	МРа	ASTM D638
Tensile Strength	50.7	МРа	ASTM D638
Tensile Elongation (Break)	0.54	%	ASTM D638
Flexural Modulus	8810	MPa	ASTM D790
Flexural Strength	79.3	MPa	ASTM D790
Compressive Strength	159	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	16.9	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)	165	°C	ASTM D648
Continuous Use Temperature	204	°C	ASTM D794
CLTE - Flow	4.7E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.54	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
		t	

Volume Resistivity	8.9E+11	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
1	11	kV/mm	ASTM D149
2	7.6	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.20		ASTM D150
Dissipation Factor (1 MHz)	0.066		ASTM D150
Arc Resistance	182	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	29	%	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. The value listed as Thermal Conductivity, ASTM C177 was tested according to the ASTM E1461 standard. Post Shrinkage, ASTM D6289, 72hr, 120°C: 0.25% Heat Resistance, ASTM D794: 204°C Drop Ball Impact, PLENCO Method: 87 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
Injection instructions		
Injection Time: 3-8 sec		
NOTE		
1.	Method A (short time)	
2.	Method B (step by step)	

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