

Plenco 01501 (Compression)

Thermoset Polyester
Plastics Engineering Co.

Message:

PLENCO 01501 is a general purpose, mineral filled granular polyester molding compound, offering excellent arc and track resistance properties, low post shrinkage, and improved mechanical strength values. UL recognized under component file E40654. 01501 is available in gray, blue, or tan color.

General Information			
UL YellowCard	E40654-231658		
Filler / Reinforcement	Mineral filler		
Features	Anti-arc		
	Good strength		
	Track Resistance		
	Low shrinkage		
	General		
Uses	General		
UL File Number	E40654		
Appearance	Grey		
	Blue		
	brownish yellow		
Forms	Blank		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.89	g/cm ³	ASTM D792
Apparent Density	0.68	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.31	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ASTM D638
Tensile Strength	43.0	MPa	ASTM D638
Tensile Elongation (Break)	0.60	%	ASTM D638
Flexural Modulus	10800	MPa	ASTM D790
Flexural Strength	90.5	MPa	ASTM D790
Compressive Strength	153	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	26.5	J/m	ASTM D256

Notched Izod Impact	25	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	200	°C	ASTM D648
Continuous Use Temperature	167	°C	ASTM D794
Thermal Conductivity (100°C)	0.70	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.2E+14	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
-- ¹	13	kV/mm	ASTM D149
-- ²	10	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.30		ASTM D150
Dissipation Factor (1 MHz)	0.028		ASTM D150
Arc Resistance	190	sec	ASTM D495
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Oxygen Index	24	%	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: 0.04%Heat Resistance, ASTM D794: 167°C Drop Ball Impact, PLENCO Method: 137 J/m			
Injection	Nominal Value	Unit	
Mold Temperature	163 - 182	°C	
Back Pressure	0.300	MPa	
Screw Speed	60	rpm	
Injection instructions			
Mold Close Time: 3-8 secPreheating Temperature: 93-100°C			
NOTE			
1.	Method A (short time)		
2.	Method B (step by step)		

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