

Plenco 01581 (Transfer)

Thermoset Polyester
Plastics Engineering Co.

Message:

PLENCO 01581 is a glass and mineral reinforced pelletized polyester molding compound, exhibiting excellent dimensional stability, mechanical strength and also arc resistance, track resistance, and flammability ratings. UL recognized under component file E40654. 01581 is available in black and grey colors.

General Information			
UL YellowCard	E40654-231664		
Filler / Reinforcement	Glass fiber reinforced material Mineral filler		
Features	Good dimensional stability Anti-arc Good strength Track Resistance		
UL File Number	E40654		
Appearance	Black Grey		
Forms	Particle Blank		
Processing Method	Resin transfer molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.83	g/cm ³	ASTM D792
Apparent Density	0.81	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.19	%	ASTM D6289
Water Absorption (24 hr)	0.10	%	ASTM D570
Post Shrinkage	0.020	%	ASTM D6289
Drop Ball Impact	278	J/m	Internal method
Heat Resistance	209	°C	ASTM D794
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	67		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12800	MPa	ASTM D638
Tensile Strength	76.0	MPa	ASTM D638
Tensile Elongation (Break)	0.90	%	ASTM D638
Flexural Modulus	10400	MPa	ASTM D790

Flexural Strength	120	MPa	ASTM D790
Compressive Strength	178	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	61.0	J/m	ASTM D256
Notched Izod Impact	56	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	277	°C	ASTM D648
CLTE - Flow	7.8E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.1E+15	ohms·cm	ASTM D257
Dielectric Strength ¹	14	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.40		ASTM D150
Dissipation Factor (1 MHz)	0.018		ASTM D150
Arc Resistance	189	sec	ASTM D495
Comparative Tracking Index (CTI)	600	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.00 mm)	V-0		UL 94
Oxygen Index	46	%	ASTM D2863
Injection	Nominal Value	Unit	
Mold Temperature	163 - 182	°C	
Back Pressure	0.300	MPa	
Screw Speed	< 60	rpm	
Injection instructions			
Transfer Time: 3-8 secTransfer Pressure: 5.5-6.9MPaPreheating Temperature: 93-100°C			
NOTE			
1.	Method A (short time)		

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