Plenco 01586 (Injection)

Thermoset Polyester

Plastics Engineering Co.

Message:

PLENCO 01586 is a glass and mineral reinforced pelletized polyester molding compound offering excellent heat resistance and mechanical strength properties. This product is typically used for injection molded electrical appliance components. UL recognized under component file E40654. 01586 is available in white, yellow, or grey colors.

General Information					
UL YellowCard	E40654-231664				
Filler / Reinforcement	Glass fiber reinforced material				
	Mineral filler				
Features	Good strength				
	Heat resistance, high				
Uses	Electrical components				
	Home appliance components				
UL File Number	E40654				
Appearance	White				
	Yellow				
	Grey				
	,				
Forms	Particle				
Processing Method	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.89	g/cm³	ASTM D792		
Apparent Density	0.89	g/cm³	ASTM D1895		
Molding Shrinkage - Flow	0.37	%	ASTM D955		
Water Absorption (24 hr)	0.060	%	ASTM D570		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (E-Scale)	54		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	11700	MPa	ASTM D638		
Tensile Strength	64.0	MPa	ASTM D638		
Tensile Elongation (Break)	1.1	%	ASTM D638		
Flexural Modulus	10300	MPa	ASTM D790		
Flexural Strength	101	МРа	ASTM D790		
Compressive Strength	119	МРа	ASTM D695		
Impact	Nominal Value	Unit	Test Method		

Charpy Notched Impact Strength	35.1	J/m	ASTM D256
Notched Izod Impact	42	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	253	°C	ASTM D648
Continuous Use Temperature	217	°C	ASTM D794
CLTE - Flow	8.6E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.87	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.9E+15	ohms•cm	ASTM D257
Dielectric Strength			ASTM D149
1	13	kV/mm	ASTM D149
²	11	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.40		ASTM D150
Dissipation Factor (1 MHz)	0.017		ASTM D150
Arc Resistance	189	Sec	ASTM D495
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.00 mm)	V-0		UL 94
Oxygen Index	41	%	ASTM D2863
Additional Information			

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: 0.01% Heat Resistance, ASTM D794: 217°CDrop Ball Impact, PLENCO Method: 292 J/m

Injection	Nominal Value	Unit
Suggested Shot Size	20 - 80	%
Rear Temperature	49.0 - 71.0	°C
Front Temperature	85.0 - 93.0	°C
Processing (Melt) Temp	93.0 - 100	°C
Mold Temperature	163 - 182	°C
Injection Pressure	6.20 - 11.0	МРа
Back Pressure	0.300	MPa
Screw Speed	< 60	rpm
Cushion	3.00	mm
Injection instructions		
Injection Time: 3-6 sec		
NOTE		
1.	Method A (short time)	
2.	Method B (step by step)	

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