Plenco 08112 (Compression)

Thermoset Polyester

Plastics Engineering Co.

Message:

PLENCO 08112 is a renumber of PlasGlas 10112. PLENCO 08112 is a general purpose polyester bulk molding compound that is characterized by adding utility to a number of applications. Because of its combination of high heat resistance, good electrical properties and strength, it can be used in such applications as iron skirts and other small appliance housings, coil bobbins, and electric motor components such as brush holders. It is available in either bulk or extruded form and is currently available in natural. Other colors are available upon request. It is UL recognized under file E40654.

General Information			
UL YellowCard	E40654-231641		
Features	Good electrical performance Good strength Heat resistance, high General		
Uses	Home appliance components Buttons General Shell		
UL File Number	E40654		
Appearance	Available colors Natural color		
Forms	BMC-Block Molding Compound		
Processing Method	Compression molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	2.04	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.23	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	59		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	17900	MPa	ASTM D638
Tensile Strength	40.0	MPa	ASTM D638
Tensile Elongation (Break)	0.40	%	ASTM D638
Flexural Modulus	15100	MPa	ASTM D790
Flexural Strength	93.8	MPa	ASTM D790
Compressive Strength	137	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength	230	J/m	ASTM D256
Notched Izod Impact	240	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	264	°C	ASTM D648
Continuous Use Temperature	226	°C	ASTM D794
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	8.3E+15	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
-- [1]	12	kV/mm	ASTM D149
-- [2]	9.9	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D150
Dissipation Factor (1 MHz)	0.041		ASTM D150
Arc Resistance	186	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
Additional Information			
The value listed as Comparative Tracking Index, UL 746 was tested according to ASTM D3638.The value listed as Mold Shrink, Linear-Flow, ASTM D955 was tested according to the ASTM D6289 standard.Post Shrinkage, ASTM D6289, 72hr, 120°C: 0.00%Drop Ball Impact, PLENCO Method: 809 J/m			
Injection	**Nominal Value**	**Unit**	
Mold Temperature	160	°C	
Back Pressure	0.300	MPa	
Screw Speed	< 60	rpm	
Injection instructions			
Mold Close Time: 3-8 sec			
NOTE			
1.	Method A (short time)		
2.	Method B (step by step)		

Recommended distributors for this material

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