

Plenco 08122 (Compression)

Thermoset Polyester

Plastics Engineering Co.

Message:

PLENCO 08122 is a renumber of PlasGlas 10212. PLENCO 08122 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, flame resistance 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	E40654-231642		
Features	Good electrical performance		
	Good strength		
	Heat resistance, high		
	General		
	Flame retardancy		
Uses	Home appliance components		
	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	1.91	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.32	%	ASTM D955
Water Absorption (24 hr)	0.090	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	52		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13500	MPa	ASTM D638
Tensile Strength	49.2	MPa	ASTM D638
Tensile Elongation (Break)	0.69	%	ASTM D638
Flexural Modulus	12300	MPa	ASTM D790
Flexural Strength	113	MPa	ASTM D790
Compressive Strength	140	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	308	J/m	ASTM D256
Notched Izod Impact	300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	273	°C	ASTM D648
Continuous Use Temperature	218	°C	ASTM D794
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.5E+15	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
-- ¹	12	kV/mm	ASTM D149
-- ²	10	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.70		ASTM D150
Dissipation Factor (1 MHz)	0.028		ASTM D150
Arc Resistance	191	sec	ASTM D495
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.10 mm)	V-0		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%			
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)		

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