Plenco 08218 (Compression)

Thermoset Polyester

Plastics Engineering Co.

Message:

PLENCO 08218 is a renumber of PlasGlas 20118. PLENCO 08218 is an 18% glass-filled polyester bulk molding compound characterized as an electrical grade, but has many outstanding properties that make it suitable for a broad range of applications. Because of its excellent electrical resistance and mechanical strength, it is well suited to commercial/industrial heavy duty electrical parts, including enclosures for power distribution equipment, fuse holders, circuit breaker cases, electric motor housings and components. It is available in bulk or extruded form, and currently in the colors of natural and light gray. Other colors available upon request. It is UL recognized under file E40654.

General Information			
UL YellowCard	E40654-231643		
Filler / Reinforcement	Glass fiber reinforced material, 18% filler by weight		
Features	Good strength		
Uses	Electrical/Electronic Applications Electrical housing Industrial application Shell		
UL File Number	E40654		
Appearance	Available colors Light gray Natural color		
Forms	BMC-Block Molding Compound		
Processing Method	Compression molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.84	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.38	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	49		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	13900	MPa	ASTM D638
Tensile Strength	49.0	MPa	ASTM D638
Tensile Elongation (Break)	0.60	%	ASTM D638
Flexural Modulus	12600	MPa	ASTM D790
Flexural Strength	133	MPa	ASTM D790
Compressive Strength	137	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	431	J/m	ASTM D256

Notched Izod Impact	440	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	271	°C	ASTM D648
Continuous Use Temperature	221	°C	ASTM D794
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.1E+15	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
-- [1]	14	kV/mm	ASTM D149
-- [2]	11	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.40		ASTM D150
Dissipation Factor (1 MHz)	0.021		ASTM D150
Arc Resistance	192	sec	ASTM D495
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 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)		

Recommended distributors for this material

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