

Premi-Glas® 8101

Thermoplastic Polyester

Premix, Inc.

Message:

Premi-Glas® 8101 is a fiberglass reinforced thermoset bulk molding compound for automotive forward lighting applications.

Key Features and Benefits:

Excellent dimensional stability and heat resistance.

Proven in high speed automated injection molding processes.

Accepts UV-cure basecoats which are required prior to vacuum metallization.

Meets the requirements of GMP.UP.014 and Ford WSB-M3D171-A1.

Available in grey or black.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Fast Molding Cycle		
	Good Dimensional Stability		
	High Heat Resistance		
Uses	Automotive Applications		
	Lighting Fixtures		
Appearance	Black		
	Grey		
Forms	BMC - Bulk Molding Compound		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.79	g/cm ³	
Molding Shrinkage - Flow	0.030	%	
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	11000	MPa	ASTM D638
Tensile Strength (Injection Molded)	31.0	MPa	ASTM D638
Flexural Modulus - Secant			ASTM D790
23°C, 0.500 mm, Injection Molded	10300	MPa	
150°C, 0.500 mm, Injection Molded	4830	MPa	
Flexural Strength (Injection Molded)	65.5	MPa	ASTM D790
Poisson's Ratio	0.30		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	43	J/m	ASTM D256
Unnotched Izod Impact (Injection Molded)	85	J/m	ASTM D4812
Thermal	Nominal Value	Unit	

CLTE		
Flow	2.5E-5	cm/cm/°C
Transverse	4.0E-5	cm/cm/°C
Thermal Conductivity	0.25	W/m/K
Injection	Nominal Value	Unit
Mold Temperature	160	°C
Injection Pressure	6.89	MPa

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