

# Premi-Glas® 3406

Thermoset, Unspecified

Premix, Inc.

## Message:

Premi-Glas® 3406 is a fiberglass reinforced thermoset sheet molding compound for mass transit third rail insulators and other semi-structural applications where low smoke and low flammability are required.

Radiant panel flame spread index of less than 20 per ASTM E-162.

Smoke Density of less than 25 per ASTM E662 (NBS smoke chamber).

Excellent flexural strength and outstanding toughness.

Halogen-free flame retardant system for reduced smoke toxicity.

Material properties conform to requirements of NYCTA 60-MTA.

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Strength		
	Good Toughness		
	Halogen Free		
	Low Smoke Emission		
Uses	Electrical/Electronic Applications		
	Industrial Applications		
UL File Number	E42524		
Forms	SMC - Sheet Molding Compound		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	14500	MPa	ASTM D638
Tensile Strength (Compression Molded)	128	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	1.2	%	ASTM D638
Flexural Modulus (Compression Molded)	12400	MPa	ASTM D790
Flexural Strength (Compression Molded)	272	MPa	ASTM D790
Poisson's Ratio	0.30		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	1300	J/m	ASTM D256
Thermal	Nominal Value	Unit	
CLTE			
Flow <sup>1</sup>	1.0E-5 to 2.0E-5	cm/cm/°C	
Transverse <sup>2</sup>	2.0E-5 to 3.0E-5	cm/cm/°C	
Thermal Conductivity	0.30	W/m/K	
Electrical	Nominal Value	Unit	Test Method

Dielectric Strength	16	kV/mm	ASTM D149
Arc Resistance	190	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
NBS Smoke Density - Ds at 4 min	< 25.0		ASTM E662
Radiant Panel Flame Spread Index	< 20.0		ASTM E162
Track Resistance - 2.5 kV	> 12.5	hr	ASTM D6303
Injection	Nominal Value	Unit	
Mold Temperature	149	°C	
Injection Pressure	3.45 to 6.89	MPa	
NOTE			
1.	XY direction		
2.	Z direction		

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