



## Material Series: AS8134

### SERIES DESCRIPTION & APPLICATION

AS8134 is a SMC Product specifically developed for Transit and Low Flame/Smoke applications. Product was 3<sup>rd</sup> Party Tested for Flame, Smoke, and Toxicity Properties. Material is excellent for high strength parts that need electrical properties without a formal UL Card. Material is compliant to UL-94 V-0 @ 4 mm.

General Material Properties		
Property (Test Method)	Value	Units
Specific Gravity (ASTM D792)	1.75-1.85	
Mold Shrinkage (ASTM D955)	0.0015-0.003	in/in
Glass Content	34	%

Mechanical Material Properties (Cut)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	12,000-16,000	80-110	psi (MPa)
Tensile Modulus (ASTM D638)	1.5-1.8 x 10 <sup>6</sup>	10-12.4	psi (GPa)
Flexural Strength (ASTM D790)	24,000-33,000	165-225	psi (MPa)
Flexural Modulus (ASTM D790)	1.2-1.5 x 10 <sup>6</sup>	8.0-10	psi (GPa)
Notched Izod Impact (ASTM D256)	14-18	750-950	ft-lb/in (J/m)

Mechanical Material Properties (Molded)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	19,500-25,500	130-175	psi (MPa)
Tensile Modulus (ASTM D638)	3.1-3.9 x 10 <sup>6</sup>	21.3-26.8	psi (GPa)
Flexural Strength (ASTM D790)	38,000-44,000	250-300	psi (MPa)
Flexural Modulus (ASTM D790)	2.3-2.5 x 10 <sup>6</sup>	15.8-17.2	psi (GPa)
Notched Izod Impact (ASTM D256)	22-24	1150-1300	ft-lb/in (J/m)

All property values are based on test performed on standard ASTM test samples and according to standard ASTM test methods unless otherwise indicated. This information is offered solely for your consideration and is to be used as a guide only. No other warranty is implied.

### Contact Us:

#### CORPORATE HEADQUARTERS

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Thermal and Electrical Material Properties			
Property (Test Method)	Value (US)	Value (Metric)	Units
Flammability (UL 94 V0) *NOT UL LISTED*	.157	4mm	in (mm)
Flame Spread - Radiant Panel Index (ASTM E162)	10		
Smoke Emission – Flaming Mode (ASTM E662)	16.3 optical density (4 min)		
Arc Track Resistance (ASTM D495)	184		Seconds
Dielectric Strength (ASTM D149)	340	13.4	Volts/mil (kV/mm)
Smoke Toxicity (BSS 7239)	CO		10ppm
	HCN		3ppm
	SO <sub>2</sub>		<1ppm
	HCl		4ppm
	HF		1ppm
	(NO + NO <sub>2</sub> )		<1ppm
	NO <sub>x</sub>		

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