



Material Series: AS8125

SERIES DESCRIPTION & APPLICATION

AS8125 is a SMC Product developed for electrical product applications. This product is in process of UL approval UL-94 V-0 @ 1.5 mm/UL-94 5VA @ 3.0mm. This series provides excellent electrical properties while also providing elevated strength.

General Material Properties		
Property (Test Method)	Value	Units
Specific Gravity (ASTM D792)	1.65-1.75	
Mold Shrinkage (ASTM D955)	0.0015-0.003	in/in
Glass Content	25	%

Mechanical Material Properties (Cut)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	8,000-11,000	55-75	psi (MPa)
Tensile Modulus (ASTM D638)	1.6-1.75 x 10 ⁶	11.0-12.0	psi (GPa)
Flexural Strength (ASTM D790)	21,000-27,000	145-185	psi (MPa)
Flexural Modulus (ASTM D790)	1.2-1.6 x 10 ⁶	8.3-11.0	psi (GPa)
Notched Izod Impact (ASTM D256)	11-15	585-800	ft-lb/in (J/m)

Mechanical Material Properties (Molded)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	17,000-23,000	115-160	psi (MPa)
Tensile Modulus (ASTM D638)	1.65-1.85 x 10 ⁶	11.4-12.7	psi (GPa)
Flexural Strength (ASTM D790)	34,000-39,000	230-270	psi (MPa)
Flexural Modulus (ASTM D790)	1.9-2.1 x 10 ⁶	13.0-14.4	psi (GPa)
Notched Izod Impact (ASTM D256)	10-13	535-700	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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MATERIALS DATA SHEET

787 Renaissance Parkway | Painesville, OH 44077



Thermal and Electrical Material Properties			
Property (Test Method)	Value (US)	Value (Metric)	Units
Flammability (UL 94 V0) *In process	Pass 0.06	Pass 1.5	in (mm)
Flammability (UL 94 5VA) *In process	Pass 0.12	Pass 3.0	in (mm)
Heat Deflection Temperature (ASTM D648)	TBD	TBD	°F (°C)
UL RTI Elec, Imp, Str (UL 746B) *In Process	266, 266, 266	130, 130, 130	°F (°C)
Dielectric Strength (ASTM D149)	360-400	14.1-15.8	Volts/mil (kV/mm)
Arc Track Resistance (ASTM D495)	185+	185+	Seconds

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