



# MATERIALS DATA SHEET

787 Renaissance Parkway | Painesville, OH 44077



## Material Series: AS8660-B1 1”

### SERIES DESCRIPTION & APPLICATION

AS8660 is a highly engineered Epoxy Sheet Molding Compound. This material was designed to have high strength with the ease of NO REFRIDGERATION REQUIRED. This room temperature stable Epoxy SMC flows well and has been used in highly structural parts that have passed stringent requirements for performance. The material can be modified to fit a variety of applications that need other properties. Material has been commercially molded in large parts (over 30 lbs.) with thick sidewalls. Depending on the applications it can be molded from 225 F to 310 F.

General Material Properties		
Property (Test Method)	Value	Units
Specific Gravity (ASTM D792)	1.75-1.85	
Mold Shrinkage (ASTM D955)	0.8-1.5	in/in

Material Properties (Net-Shape Bars)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	55-65	380-450	ksi (MPa)
Tensile Modulus (ASTM D638)	6,500-8,500	44.8-58.5	ksi (GPa)
Flexural Strength (ASTM D790)	85-100	585-690	ksi (MPa)
Flexural Modulus (ASTM D790)	3,900-4,300	26.9-29.5	ksi (GPa)
Notched Izod Impact (ASTM D256)	22-26	1150-1400	ft-lb/in (J/m)
Dielectric Strength (ASTM D149)	390-420	15-16.5	Volts/mil (kV/mm)

Material Properties (Cut Specimens)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	22-30	150-205	ksi (MPa)
Tensile Modulus (ASTM D638)	2,500-2,700	17-18.5	ksi (GPa)
Flexural Strength (ASTM D790)	33-39	230-270	ksi (MPa)
Flexural Modulus (ASTM D790)	1800-2200	12.4-15.0	ksi (GPa)
Notched Izod Impact (ASTM D256)	20-25	1050-1350	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. \*Shelf life assumes material is shipped to customer via refrigerated truck where temperatures are at or below recommended storage temperatures. Material may continue to mature causing an increase in material viscosity and may be required to be pre-heated prior to molding.

### Contact Us:

#### CORPORATE HEADQUARTERS

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[www.Altraset.com](http://www.Altraset.com)

Revised: 9/6/2024



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## Storage Guidelines

Property	Value	Units
Storage Temperature	<70	F
Shelf life*	16	weeks

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