


Spaulding
 COMPOSITES INC

ENGINEERING DATA SHEET
GRADE: SPAULDITE® M-ARK LAMINATE SHEET

 Reprint of: _____ Issued: 1015

Spauldite® Grade M-ARK is a tough aramid reinforced melamine laminate with good resistance to the effects of ammonia and hydrocarbon. Grade M-ARK has high impact and bond strength with good chemical resistance. Typical applications of grade M-ARK laminates include pump vanes, especially when a variety of liquids are to be pumped. This grade is not recommended for electrical applications.

MAJOR FEATURES

- Excellent Mechanical Strength
- Good Resistance to Ammonia and Hydrocarbon
- Good Dimension Stability
- Good Wear Resistance

ELECTRIAL CHARACTERISTICS

Grade M-ARK is not recommended for use as primary electrical insulation.

MECHANICAL CHARACTERISTICS

This product's excellent mechanical strength and good resistance to ammonia and hydrocarbon make it desirable for fluid chemical pump vanes and other wear applications where ammonia and hydrocarbon are present.

APPLICATIONS

Grade M-ARK is used for the fabrication of liquid pump vanes, and other applications where good resistance to ammonia and hydrocarbon is required.

FABRICATION

Grade M-ARK is sold as fabricated parts only. Contact Customer Service for prototypes or sample parts.

In addition to manufacturing Spauldite® high pressure laminated sheets, tubes and rods, Spaulding has complete fabricating facilities in Rochester, NH for all types of machining, drilling and punching of laminated materials.

 STANDARD SHEET SIZE1: 48" X 36"
 48" X 48"

COLOR: NATURAL YELLOW

THICKNESS: .062" –1.000"

¹ Available in fabricated parts only.

"To the best of our knowledge the information contained herein is accurate; however, Spaulding Composites Company, Inc. does not accept any liability regarding the accuracy or completeness of such information. Further, such information is based on standard base material and thus may change if the product ordered by purchaser requires further processing of base material by us and/or the purchaser. Purchaser has the sole responsibility in determining the suitability of any material described herein for the use contemplated and the processing of such material by purchaser."


Spaulding
 COMPOSITES INC

ENGINEERING DATA SHEET
GRADE: SPAULDITE® M-ARK LAMINATE SHEET

 Reprint of: _____ Issued: 1015
PROPERTY CHARACTERISTICS

PROPERTY	ASTM TEST METHOD	CONDITIONING & TYPE OF TEST	THICKNESS INCHES	AVERAGE TYPICAL VALUES		ESTIMATED SPECIFICATION VALUES	
				ENGLISH	SI	ENGLISH	SI
MECHANICAL							
Flexural Strength Flatwise	D-229	A Lengthwise Crosswise	.750	30.8 ksi	(MPa) 212.4	≥22.8 ksi	MPa ≥157.2
			.750	29.7 ksi	204.5	≥23.6 ksi	≥162.7
PHYSICAL							
Density	D-792	A	.750	.052 lbs/in ³	1.43 g/cm ³	≥.051 lbs/in ³	≥1.4g/cm ³
Rockwell Hardness	D-229	A	.750	M-104	M-104	NR	NR
Water Absorption	D-229	D1-24/23	.750	3.7%	3.7%	≤4.5%	≤4.5%
Acetone Swell Test	ESR 163	A	.250-.499	.0005	.0005	≤.002	≤.002
			.500-.750	.0003	.0003	≤.003	≤.003

"To the best of our knowledge the information contained herein is accurate; however, Spaulding Composites Company, Inc. does not accept any liability regarding the accuracy or completeness of such information. Further, such information is based on standard base material and thus may change if the product ordered by purchaser requires further processing of base material by us and/or the purchaser. Purchaser has the sole responsibility in determining the suitability of any material described herein for the use contemplated and the processing of such material by purchaser."