



LAMINATE, ELECTRICAL INSULATION (.058/.191/.058/.013)

WSS-M3L71-A5

1. SCOPE

The materials defined by this specification are a composite of aromatic polyamide (aramid) paper and polyester film.

2. APPLICATION

This specification was released originally for material used where high temperature insulation is required such as slot insulation in the alternator stator.

3. REQUIREMENTS

Material specification requirements are to be used for initial qualification of materials.

3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.4 THICKNESS (ASTM D 374)

3.4.1	Total, mm	0.27 - 0.35
3.4.2	Nominal, mm	
	Aramid paper	0.058
	Polyester film	0.191
	Aramid paper	0.058
	Polyester film	0.013

3.5 BASIC WEIGHT, g/m², min (ASTM D 646)

388

3.6 BURST STRENGTH, g/m², min (ASTM D 774)

2.75

Date	Action	Revisions
2003 06 30	Revised	Para 3.0 inserted; Para 3.1, 3.2, 3.3, 3.11, 3.12, 4 deleted
2001 03 05	Activated	

Documents
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ENGINEERING MATERIAL SPECIFICATION

WSS-M3L71-A5

3.7	DIELECTRIC STRENGTH, KV/mm, min (ASTM D 149, short time 6.35 mm electrode)	52
3.8	TENSILE STRENGTH, N/mm, min (ASTM D 828)	
	WMD	28
	AMD	28
3.9	ELONGATION, %, MIN	
	WMD	25
	AMD	75
3.10	TEAR STRENGTH, g/cm, min (ASTM D 689, at 85 °C)	
	WMD	200
	AMD	200