



PHENOLIC MOLDING COMPOUND

ESF-M3D78-A

1. SCOPE

The materials defined by this specification are phenolic molding compounds.

2. APPLICATION

This specification was released originally for materials used in the manufacture of miscellaneous plastic parts.

3. REQUIREMENTS

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

The compounds shall be molding powders consisting of phenol formaldehyde resin combined with a suitable filler and shall have the following physical properties.

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).

3.1	SPECIFIC GRAVITY (ASTM D 792)	1.38 max
3.2	TENSILE STRENGTH, MPa, min (ASTM D 638)	41.4
3.3	FLEXURAL STRENGTH, MPa, min (ASTM D 790)	55
3.4	WATER ABSORPTION, %, max (ASTM D 570, 24 h immersion)	0.8
3.5	HEAT DEFLECTION TEMPERATURE, °C min (ASTM D 648, 1.82 MPa)	129
3.6	IMPACT STRENGTH, J/m, min (ASTM D 256, notched)	14.9
3.7	DIELECTRIC STRENGTH, kV/mm, min (ASTM D 149, short time)	11.8

Date	Action	Revisions
2006 08 16	Revised	Inactivated and removed ESF-M3D78-A2, no replacement named R. Lord
2004 10 25	Revised	Inserted 3.0; Deleted 3.8 & 4
1963 06 07	Released	A CF6-119626-1





5. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification.

5.1	POWER FACTOR AT 60 CYCLES (60 Hz), max (ASTM D 150)	0.4
5.2	DIELECTRIC CONSTANT AT 60 CYCLES (60 Hz), max (ASTM D 150)	10.0

