



ALKYD MOLDING COMPOUND, GLASS FIBER REINFORCED

ESF-M3D56-A

1. SCOPE

The material defined by this specification is a glass reinforced thermosetting alkyd resin molding compound. This material is highly filled with carbonates and clays.

2. APPLICATION

This specification was released originally for material used for molding alternator diode plate insulators.

3. REQUIREMENTS

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 MOLDED PROPERTIES

3.1.1	Specific Gravity, min (ASTM D 792)	1.75
3.1.2	Flexural Strength, min (ASTM D 790, 12.7 x 12.7 x 127 mm specimen)	103 MPa
3.1.3	Impact Strength, Izod, min (ASTM D 256, Method A, 12.7 x 12.7 x 127 mm specimen)	80 J/m
3.1.4	Heat Deflection Temperature, min (ASTM D 648, 1.82 MPa, 12.7 mm specimen width)	204 °C
3.1.5	Water Absorption, max (ASTM D 570)	0.35%
3.1.6	Dielectric Strength, min (ASTM D 149, 3.2 mm thick specimen)	
	Short Time	11.8 kV/mm
	Step by Step	10.8 kV/mm
3.1.7	Arc Resistance, min (ASTM D 495)	180 s

Date	Action	Revisions
2004 10 25	Revised	Inserted 3.0; Deleted 3.2, 3.3 & 4; Revised 5.
1986 01 28		3.1.1 was 1.90, Revised & Retyped CF4P-RD888002-341
1963 06 21	Released	F6-1068





5. GENERAL INFORMATION

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

5.1	MODULUS OF ELASTICITY (ASTM D 790)	14 GPa
5.2	DIELECTRIC CONSTANT, 10^6 cycles (1 MHz) (ASTM D 150)	6.0

