



ALKYD MOLDING COMPOUND, GLASS FILLED - HIGH HEAT AND HIGH IMPACT RESISTANT

ESE-M3D124-A

1. SCOPE

The material defined by this specification is a glass reinforced, alkyd (polyester) molding compound. The material is especially formulated for high heat and high impact applications.

2. APPLICATIONS

This specification was released originally for material used in the manufacture of distributor caps.

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

Test specimens to be run for certification as established by Quality Control. The intervals established by Quality Control to confirm that the values are representative and for initial approval.

3.1.1 Specific Gravity (ASTM D 792)

Tolerance of +/- 0.02 for each supplier based on original sample as approved by Materials Engineering.

3.1.2 Color

Blue or as specified on engineering drawing.

3.1.3 Deflection Temperature, min (ASTM D 648, 264 psi) (1820 kPa)

260 °C

3.1.4 Dielectric Strength, min (ASTM D 149)

Short Time
Step by Step

350 V/mil (13.8 kV/mm)
300 V/mil (11.8 kV/mm)

3.1.5 Impact Strength, Izod, min (ASTM D 256, notched, 1/2 in (12.7 mm) sample width x 1/2 in (12.7 mm) sample thickness)

3.0 ft lb/in (160 J/m)

Date	Action	Revisions
2004 10 26	Revised	Inserted 3.0; Deleted 3.4, 3.5 & 4
1978 07 14		Metricated and Retyped CE3H-RD782440-E
1975 05 16	Released	(was XE-M3D1-A) CE3D-RD740100-564





3.1.6	Water Absorption, max (ASTM D 570)	0.20%
3.1.7	Arc Resistance, min (ASTM D 495)	180 s

3.2 RAW MATERIAL

It is the responsibility of the molder of parts using this material, to control the necessary properties needed for his molding process in order to assure acceptable parts.

3.3 MOLDED PARTS

Specific requirements, when required, shall be specified on the engineering drawings. Parts must meet the design intent as called for in the engineering specification for said parts.

5. GENERAL INFORMATION

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

5.1	FLEXURAL STRENGTH (ASTM D 790)	16,000 psi (110 MPa)
5.2	TENSILE STRENGTH (ASTM D 651)	5,800 psi (40 MPa)
5.3	COMPRESSIVE STRENGTH (ASTM D 695)	21,000 psi (145 MPa)