



Engineering Material Specification

Material Name

Specification Number

PHENOLIC, TRANSFER MOLDING COMPOUND - MINERAL FILLED

P ESW-M3D117-A

ASBESTOS REINFORCED

1. SCOPE

The material defined by this specification is a two stage, transfer molding grade, mineral filled, flake phenolic molding compound with low moisture absorption, and good dimensional stability at elevated temperatures.

2. APPLICATION

This specification was released originally for material used to mold automatic transmission converter reactors.

3. REQUIREMENTS

3.1 COMPRESSION MOLDED TEST SPECIMENS (As molded without post bake.)

3.1.1	Color	Black
3.1.2	Specific Gravity (ASTM D 792)	1.74 - 1.80
3.1.3	Water Absorption, max (ASTM D 570)	0.5%
3.1.4	Impact Strength, min (ASTM D 256, notched)	1.2 ft lb/in (64 J/m)
3.1.5	Flexural Strength, min (ASTM D 790)	9500 psi (65 MPa)
3.1.6	Tensile Strength, min (ASTM D 638)	4700 psi (32.4 MPa)
3.1.7	Compressive Strength, min (ASTM D 695)	20 000 psi (138 MPa)
3.1.8	Deflection Temperature, min (ASTM D 648, 264 psi (1820 kPa))	260°C
3.1.9	Ash, min (FLTM BO 6-2)	48%
3.1.10	Hardness - Rockwell "E", min (ASTM D 785)	90

Date	Para. No.	Revisions
1978 11 15		Metricated and Retyped PCR B3722440-P3
1971 09 27		Released CP5-971708

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