



Engineering Material Specification

Material Name

POLYVINYL CHLORIDE COPOLYMER, SOFT

Specification Number

ESA-M4D106-A

1. SCOPE

The material defined by this specification is a polyvinyl chloride copolymer molding material.

2. APPLICATION

This specification was released originally for material used for heater door seals.

3. REQUIREMENTS

3.1 CONDITIONING

All test specimens shall be conditioned in accordance with ASTM D 618, Procedure "A", prior to testing.

3.2 COLOR Black

3.3 HARDNESS - DUROMETER "A" 35 - 45
(ASTM D 2240)

Oven Aged at $88 \pm 3^{\circ}\text{C}$ for 24 h, change 0 to -5

3.4 TENSILE STRENGTH, min 600 psi (4.1 MPa)
(ASTM D 412)

3.5 ELONGATION, min 350%
(ASTM D 412)

3.6 BRITTLINESS TEMPERATURE -40°C
(ASTM D 746, 50% non-failure)

3.7 SPECIFIC GRAVITY, max 1.15
(ASTM D 792)

3.8 PHYSICAL PROPERTIES

Any additional physical properties requirements of molded parts will be specified on engineering drawings.

3.9 SUPPLIER'S RESPONSIBILITY

Material supplied to this specification must be equivalent to that originally approved. Changes in formulation or processing shall not be made without prior approval as described in Supplier Procedure I-A.

Date	Para. No.	Revisions
1979 06 22		Metricated and Retyped <i>6-13/CHSH-RD 534190</i> <i>R.H. Hansen</i>
1963 07 24		Released AS2-328

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4. APPROVAL OF SUPPLIERS

Suppliers to this specification must be approved by the affected product engineering office. Procedure for gaining approval of a specific material to a new/existing ES-M specification is contained in Supplier Procedure I-A. Approved new suppliers will be added to the Engineering Materials Approved Source List.

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