



ACRYLONITRILE RUBBER, DUST SEAL

ESP-M2D166-A2

1. SCOPE

The material defined by this specification is a mineral filled hard rubber ring on the rubber boot of the transmission extension oil seal assembly.

2. APPLICATION

This specification was released originally for material used as a dust seal to exclude dirt from the slip yoke.

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 ORIGINAL PROPERTIES, SLAB STOCK

3.1.1	Hardness, Durometer D (ASTM D 2240)	52 - 62
3.1.2	Tensile Strength, min (ASTM D 412, Die C)	9 MPa
	Elongation, min	40%

3.2 HEAT AGING

(ASTM D 865, 70 h at 150 +/- 2 °C)

Hardness, Durometer D Change, max	+20
Tensile Strength Change, max	-70%
Elongation Change, max	-100%

3.3 IMMERSION IN ASTM OIL NO. 1

(ASTM D 471, 70 h at 150 +/- 2 °C, aluminum block)

Hardness, Durometer D Change, max	+15
Tensile Strength Change, max	+55%
Elongation Change, max	-100%
Volume Change, max	-10%

Date	Action	Revisions
2004 06 30	Revised	Para 3.0 inserted; para 3.6, 3.8, 3.9 & 4 deleted
1988 03 01	Revised	CR/CR 132294-P
1981 11 24	Released	PCR PA868687-P



3.4 IMMERSION IN ASTM OIL NO. 3
(ASTM D 471, 70 h at 150 +/- 2 °C, aluminum block)

Hardness, Durometer D Change, max	+10
Tensile Strength Change, max	+30%
Elongation Change, max	-90%
Volume Change, max	+10%

3.5 IMMERSION IN APPROVED ATF
(ASTM D 471, 70 h at 150 +/- 2 °C, aluminum block)

Hardness, Durometer D Change, max	+15
Tensile Strength Change, max	-30 to +30%
Elongation Change, max	-90%
Volume Change, max	-5%

3.7 FINISHED PART

Specific requirements for physical properties of finished parts, when required, shall be specified on engineering drawing.