

MATERIAL REPORT

MATERIAL DESCRIPTION:

 Material: EPDM-Peroxide Cured Compound No.: 70EP111p Color: Black ;

TITLE: Evaluation of Bode Compound 70EP111p to the testing requirements of Spec. as follc

SPECIFICATION: 125°C × 24H, Compression Set < 15%
CONCLUSION: Bode Compound 70EP111p meets all phases of the above specification.

 Recommended temperature limits: -55 to +120 °C

Recommended For:

- ★ Cold water, hot water and steam
- ★ Many organic and inorganic acids
- ★ Cleaning agents, soda and potassium alkalis
- ★ Silicone oil and grease
- ★ Some polar solvents (alcohols, ketones, esters)
- ★ Phosphate-ester based hydraulic fluids (HFD-R)
- ★ Ozone, aging and weather resistant
- ★ NSF 61, KTW, WRC, ACS

Not Recommended For:

- ★ Mineral oil (oils, greases and fuels)

REMARKS:

Test Samples Description

Slab Size: 30×20×5 mm

Press Cure : 185 °C × 120 Sec

Post Curing: 160 °C × 4 Hrs

REPORT DATA

Original Physical Properties

	Requirements	Result	Judgement
Hardness, IRHD, ASTM D1415, pts	70±5	72	Pass
Specific Gravity, ASTM D1817, g/cm³		1.16	N/A
Modulus 100% , ASTM D412 , Mpa		3.8	N/A
Tensile strength, ASTM D412 , min, Mpa	10	14.6	Pass
Ultimate elongation, ASTM D412 , min, %	200	265	Pass

Heat Aging (70 hours at 125 °C) , ASTM D573

Hardness change, pts , Shore-A	+10	+4	Pass
Tensile strength change, %	-20	+8.5	Pass
Ultimate elongation change, max, %	-40	+0.50	Pass

Compression Set (24 hours at 125 °C) , ASTM D395 Method B

Deflection, max, % (O-Ring, 22.2×3.1mm)	20	9.6	Pass
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Compression Set (72 hours at 23 °C) , ASTM D395 Method B

Deflection, max, % (O-Ring, 22.2×3.1mm)	15	5.4	Pass
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Water Resistance (70 hours at 100 °C) , ASTM D371

Hardness change, pts , Shore-A			
Volume change , %	±5	+2.0	Pass



Engineer : _____

Plant Manager: _____