Akron Rubber Development Laboratory, Inc.



This document certifies Arlon® 1050

From

Greene, Tweed & Co.

PASSED

the technical requirements for Fluid Aging

In accordance with Annex B, ISO 23936-1, 2009 Edition and NORSOK M-710, Rev.3

Test Gas Classification	B.1.1 Table B.1		
	Multi-Phase High H ₂ S Sour Gas Aromatic Fluid Mix		
Test Temperature	195°C, 210°C, and 225°C		
Initial Charge Pressure	6.0 +/- 0.5 MPa (870 +/- 72 psi)		
Test Specimen	ASTM D638 Type IV dumbbell test specimens		
Operational Service			
Temperature /	180°C / ISO 10423 Service Classification "X"		
Classification			

Prepared By:

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Property	Measured	Allowable Change	Source	Comment
% Change Volume min/max	+3.8%/+4.8%	-1%/+5%	ISO 23936-1 NORSOK M-710	No failures during aging test
Hardness min/max	+8.4/+17.2 (points)	Report	ISO 23936-1 NORSOK M-710	Data only to be reported
% Change Young's Modulus min/max	-14.1%/+11.8%	-50%/+50%	ISO 23936-1 NORSOK M-710	No failures during aging test
% Change Stress At Break min/max	-4.0%/+0.8%	-50%/+50%	ISO 23936-1 NORSOK M-710	No failures during aging test
% Change Elongation min/max	-6.5%/+15.7%	-50%/+50%	ISO 23936-1 NORSOK M-710	No failures during aging test

The results indicate that the material is resistant to the simulated fluid media specific herein. The Arlon® 1050 Plastic PASSED the full requirements of Annex B per ISO 23936-1 and Norsok M710 Rev 3, under the stated conditions.

David Nuss Staff Engineer ARDL Engineering

John Meser Manager ARDL Engineering

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