

PRODUCT TEST REPORT

Report Date: 07th July 2017 Pages: 2
 Test Dates: 29-10-15 Testing Officer: Jose Diaz
 Sample Tested: Aptane P263/B900 Report No: WR58266

Low Density Buoyancy foam (Aptane P263/B900)

Product: Aptane P263/B900
Sample Identification: Low Density Buoyancy foams - Core density (47 kg/m³ and 56 kg/m³)
Test required: Stability under temperature recycling - (MSCD.8 (70)2.7.1)
 Resistance to hydrostatic pressure (NSCV Part C Subsection 6B Annex F Clause F4)
Water absorption to 1.25m (MSC.8 (70) 2.7.5)
 Hydrocarbon resistance test (NSCV Part C Section 6 Subsection 6B Annex F Table F2)
Test Conditions: Aging -10 cycles of [8h intervals at ((+65°C) – (RT) – (-30°C))]
 Immersion in water (7days at Tf = 1.25m)
 Compression @ 10% deformation at (23°C – 50%RH)
 Hydrocarbon resistance – 30 days @ 38°C

Results:

Immersion in water after aging

	Dry sample (Density 46.8 kg/m ³)	Dry sample (Density 56.0 kg/m ³)
Dry mass (g)	174.98	203.08
Mass after Immersion (g)	175.93	205.02
% mass change after immersion (%)	0.5	0.95

Compression @ 10% deformation

	Density (46.8) kg/m ³	Density (56.0) kg/m ³
Sample ID	Compression at 10% deformation (kPa)	Compression at 10% deformation (kPa)
S1 (kPa)	364.6	406.6
S2 (kPa)	345.3	432.2
S3 (kPa)	350.5	428.6
Average	353.5	422.5

Exposure to hydrocarbon vapour

	Dry sample (Density 46.8 kg/m ³)	Dry sample (Density 56.0 kg/m ³)
Dry mass (g)	171.00	190.24
Mass after Immersion (g)	169.76	189.01
% mass change after 30 day immersion (%)	0.73	0.65

Comments:

- The compressive strength of the foam in kPa at 10% strain shall not be less than the greater of 95Tf or 235 kPa (All the samples PASS)
- No deformations or shrinkage were observed during the stability under temperature recycling
- After the immersion in the water (7 days @ 1.25m) samples show no sign of damage such as shrinking, cracking, swelling, dissolution or change in mechanical properties
- No sign of damage or deterioration observed for hydrocarbon testing.

Jose Diaz
Testing Officer

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