

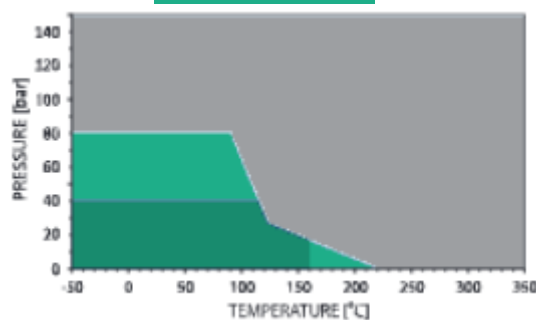
**MATERIAL DATASHEET**

V. 05/2015

**TESNIT® BA-50**

Material Information	
<b>Manufacturer</b>	Donit
<b>Composition</b>	Aramid fibers, inorganic fillers, NBR binder
<b>Applications</b>	General purpose, water supply, ship building
<b>Approvals</b>	DIN-DVGW DIN 3535-6, DNV GL, DVGW W270, EC 1935/2004, SVGW DIN 3535-6, TA-Luft (VDI 2440), TZW ELL, WRAS
<b>Colour</b>	Light green
<b>Thickness (mm)</b>	0,5; 1,0; 1,5; 2,0; 3,0
<b>Sheet dimensions (mm)</b>	1 500 x 1 500; 3 000 x 1 500; 4 500 x 1 500

Technical Data (2 mm thickness)		
<b>Density,</b> DIN 28090-2 (g/cm <sup>3</sup> )	<b>Compressibility,</b> ASTM F36J (%)	<b>Recovery,</b> ASTM F36A (%)
1,8	9	55
<b>Tensile strength,</b> ASTM F152 (MPa)	<b>Stress resistance,</b> DIN 52913 (MPa)	<b>Specific leak rate,</b> DIN 3535-6 (mg/s·m)
11	25 (50 MPa, 175 °C, 16 h) - (50 MPa, 300 °C, 16 h)	0,07
<b>Thickness increase,</b> ASTM F146 (%)	<b>Compression modulus,</b> DIN 28090-2 (%)	<b>Creep relaxation,</b> DIN 28090-2 (%)
8 (Oil IRM 903, 150 °C, 5 h) 10 (ASTM Fuel B, 23 °C, 5 h)	8,5 ( $\epsilon_{KSW}$ ) 25 ( $\epsilon_{WSW/200^\circ C}$ )	5,1 ( $\epsilon_{KRW}$ ) 1,2 ( $\epsilon_{WRW/200^\circ C}$ )
<b>Peak temperature</b> (°C/°F)	<b>Continuous temperature</b> (°C/°F)	<b>Maximum pressure</b> (bar/psi)
280/536	220/428	80/1160

**pT-diagram**

- General suitability
- Limited suitability
- Not recommended

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Recommended Media			
Acetamide	Copper sulfate	Isopropanol	Propane
Acetic acid 10 %	Cyclohexane	Kerosene	Propylene
Acetylene	Cyclohexanol	Lead acetate	Pthalic acid
Adipic acid	Decalin	Lead arsenate	Seawater / brine
Air	Dextrin	Magnesium sulfate	Soaps
Alum	Diphyl	Methane	Sodium aluminate
Aluminium acetate	Ethane	Methanol	Sodium bicarbonate
Ammonium bicarbonate	Ethanol	Milk	Sodium bisulfite
Ammonium chloride	Ethylene	Mineral oil	Sodium carbonate
Ammonium hydroxide	Ethylene glycol	Motor oil	Sodium chloride
Argon	Formic acid 10 %	Naphtha	Sodium cyanide
Asphalt	Freon-12 (R-12)	Nitrogen	Sodium silicate (water glass)
Barium chloride	Freon-134a (R-134a)	Octane	Sodium sulfate
Benzene	Fruit juices	Oils (essential)	Sodium sulfide
Bio-diesel	Fuel oil	Oils (vegetable)	Starch
Bio-ethanol	Gasoline	Oils, fuels	Stearic acid
Borax	Gelatin	Oleic acid	Sugars
Boric acid	Glycerine	Palmitic acid	Tar
Butadiene	Glycols	Paraffin oil	Toluene
Butane	Helium	Pentane	Transformer oil (mineral)
Butyl alcohol	Heptane	Petroleum	Vinegar
Butyric acid	Hydraulic oil (glycol)	Potassium acetate	Water
Calcium chloride	Hydraulic oil (mineral)	Potassium bicarbonate	White spirits
Calcium hydroxide	Hydrogen	Potassium carbonate	Xylenes
Carbon dioxide	Iron sulfate	Potassium chloride	Zinc sulfate
Carbon monoxide	Isobutane	Potassium cyanide	
Chlorine solution	Isooctane	Potassium iodide	
Copper acetate	Isoprene	Potassium nitrate	