

Product Specification

FAB-EPM: Resistance to Chemicals



Remarks:

In many applications where FAB-EPM is used as a product for vibration control, the material may be subject to various chemicals or natural environmental influence. The long-term performance of FAB-EPM therefore depends on its behavior when exposed to other materials. Tests regarding chemical resistance of FAB-EPM were performed closely to DIN 53428. Performance criteria is the change in elongation at tear and ultimate tensile strength after reaction of the chemicals listed below with a duration of 6 weeks at normal environmental conditions.

1. Water and Diluted Liquids

The resistance of FAB-EPM against water and diluted liquids is excellent. Icing in the open cells does not negatively affect FAB-EPM. The absorption of any water leads to a change of the physical bond and surface tension in the material structure. This results in a loss of ultimate tensile strength of 30% maximum. Drying of the material reverses the change, and the initial properties are renewed. FAB-EPM saturated with water slightly increases its volume at temperatures below 15°C. When dry, FAB-EPM contracts to its original dimensions.

1.1. Test Results - Water and Diluted Liquids

	<u>Resistance</u>
Water	Excellent
Natrium Chloride 10%	Excellent
Herbicide	Excellent
Tenside	Excellent
Concrete Slurry	Excellent

2. Solvents

FAB-EPM is resistant against most solvents. Highly aromatic solvents and a few other special solvents bring FAB-EPM to swell and dissolve at high temperatures. Halogenated hydrocarbons swell FAB-EPM, but do not lead to permanent damage. FAB-EPM has excellent resistance to aliphatic hydrocarbons.

2.1. Test Results - Solvents

	<u>Resistance</u>
Aromatic Hydrocarbons	None
Acetone	None
Diesel / Heating Oil	Good
Gasoline	Good
Petrol / Ether	Excellent
Thinner	None

3. Acids and Alkalines

FAB-EPM has good resistance to diluted acids at room temperature, and excellent resistance to diluted alkalines. Strong acids and alkalines lead to damage.

3.1. Test Results - Acids and Alkalines

	<u>Resistance</u>
Diluted Hydrochloric Acid, 5%	Good
Ethanoic Acid	Good
Diluted Soda Lye, 5%	Good

4. Oils and Grease

FAB-EPM has excellent resistance to most oils and grease. Some oils lead to smaller swell and decrease in ultimate tensile strength. Additives may weaken the resistance.

4.1. Test Results - Oils and Grease

	<u>Resistance</u>
ASTM Oil No. 1	Excellent
ASTM Oil No. 3	Excellent
Hydraulic Oil	None (Depending on the compound)
Motor Oil	None (A test is recommended)
Turpentine Oil	Good
Forming Oil	Excellent

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