

## Product Examples

**AEP Polymers**

The information given is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but since the conditions of use are beyond our control we do not warrant the results to be obtained.

Product Information/AEP 001/br34/p1 of 1

### Properties\*

#### Products\*\*

**AEP 80VM**

**AEP 60VM**

**AEP 40H**

■ Volume Expansion, % @ 20°C			
- Water	557	277	177
- pH 1.0 (dil. HCl)	569	270	174
- pH 14.0 (dil. NaOH)	579	273	255
- Saline (1% NaCl)	569	274	172
■ Linear expansion ratio, @ 20°C water	1.77	1.40	1.21
■ Moisture content, % @ 20°C	80	60	38
■ Ratio bound to free water	50:50	60:40	70:30
■ Effective pore diameter, microns			
- Hydrated	0.46	0.38	0.20
- Dry	0.01	0.01	0.01
■ Tensile modulus, MPa			
- Dry	2.1x10 <sup>3</sup>	2.7x10 <sup>3</sup>	4.0x10 <sup>3</sup>
- Hydrated @ 40% strain	0.35	0.45	0.59
■ Tensile strength hydrated MPa	1.16	1.83	0.49
■ Elongation to break, %	310	125	110
■ Density	1.2	1.2	1.2
■ Temperature stability^^, °C	180	180	190
■ Flammability - dry	chars @ 220°C	chars @ 220°C	chars @ 240°C
■ Particle size, microns***	<500 or granules	<500 or granules	<500 or granules
■ Solubility in water	insoluble	insoluble	insoluble
■ Environment	inert	inert	inert
■ H&S	inert	inert	inert

\* These values should not be construed to be product specifications

\*\* Grades can be mixed to vary character and properties

\*\*\* All grades available as blocks or rods for machining and as powder or granules. Special grades to order.

^^ 20 minutes in air retaining > 95% absorption properties

For further information and advice contact:

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