Chemical Resistance



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Test conditions (in accordance with DIN 53428):

Reaction time: 6 weeks at room temperature, except for concentrated acids, bases and solvents: 7 days at room temperature

Evaluation criteria:

Changes in tensile stress and elongation at rupture (dry samples), volume change

r / watery solution	ن S	S	S	S	S	S
	ylomer®	ylodyn⊛	ylodamp®	ylomer _® FR os gwp sbec	ylomer _® EK	ts and Alomer® CT

Water / watery solutions								
Water	1	1	1		1	1	1	
Ferrous chloride 10 %	1	1	1		1	1	1	
Sodium carbonate 10 %	1	1	1		1	1	1	
Sodium chlorate 10 %	1	1	1		1	1	1	
Sodium chloride 10 %	1	1	1		1	1	1	
Sodium nitrate 10 %	1	1	1		1	1	1	
Tensides (various)	1	1	1		1	1	1	
Hydrogen peroxide 3 %	1	1	1		1	1	1	
Concrete slurry	1	1	1		1	1	1	

Acids and Bases						
Formic acid 5 %	3	3	3	2	3	3
Acetic acid 5%	2	2	2	2	2	2
Phosphoric acid 5 %	1	1	1	1	1	1
Nitric acid 5 %	4	4	4	4	4	4
Hydrochloric acid 5 %	1	1	1	1	1	1
Sulfuric acid 5 %	1	1	1	2	1	1
Ammonia solution 5 %	1	1	1	2	1	1
Potassium Iye 5%	1	1	1	1	1	1
Soda Iye 5 %	1	1	1	2	1	1

Resistance to other inf	luend	es				
Hydrolysis ²	1	1	1	2	2-3	2-3
Ozone	1	1	1	1	1	1
UV radiation and weather	1-2	1-2	1-2	1-2	1-2	1-2
Biological stability	1	1	1	1	11	11

Evaluation levels:

- 1... Excellent resistance (change in properties of <10 %)
- 2... Good resistance (change in properties between 10 % and 20 %)
- 3... Moderate resistance (change in some properties of 20 %)
- 4... No resistance (change in all properties of more than 20%)

	Sylom	Sylody	Sylod		Sylom	Sylom	Sylom		
Oils and Fats									
ASTM Oil No. 1	1	1	1		1	1	1		
ASTM Oil No. 3	2	2	1		2	1	1		
Drilling oil	2	2	2		-	3	2-3		
Hydraulic oil	depending on composition/additives								
Motor oil	1	1	1		-	1	1		
Forming oil	1	1	1		-	1	1-2		
Flange lubricant	3	1-2	3		-	1-2	2		
Point grease	1-2	1-2	1-2		-	1-2	1-2		

Solvents						
Acetone	4	4	4	4	4	4
Diesel/heating oil	2	2	2	3	2	2
Motor gasoline/petrol	3	3	3	4	2-3	3
Glycerine	1	1	1	1	1	1
Glycols	2	1-2	2	3	2	2
Benzine/hexan	2	1	2	1-2	1	1
Methanol	4	3	4	-	2	2-3
Aromatic hydrocarbons	4	4	4	4	4	4

All information and data is based on our current knowledge. The data can be applied for calculations and as guidelines, are subject to typical manufacturing tolerances, and are not guaranteed. We reserve the right to amend the



¹ fungicide equiped ² 28 days, 70 °C, 95 % relative humidity