



FAGERDALA WORLD FOAMS
Fagerdala Termonova Oy

Technical Information

Revision no. 3 14.08.03

Fawo[®] Ion 28N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 28 | kg/m ³ |
| Tensile Strength | 53571 | 28 | N/cm ² |
| Elongation | 53571 | 157 | % |
| Tear resistance | 53575 | 1,39 | N/mm |
| Compressive strength, deflection 50% | 53577 | 73 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0377 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 1,55 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 2500 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Technical Information

Revision no. 3 14.08.03

Fawo[®] Ion 30N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 30 | kg/m ³ |
| Tensile Strength | 53571 | 28 | N/cm ² |
| Elongation | 53571 | 157 | % |
| Tear resistance | 53575 | 1,39 | N/mm |
| Compressive strength, deflection 50% | 53577 | 73 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0377 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 1,55 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 2500 | |
| Recommended working temperature | | -50 - +90 | °C |

Fire resistance class



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FAGERDALA WORLD FOAMS
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Technical Information

Revision no. 3 14.08.03

Fawo[®] Ion 30NFR

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 35 | kg/m ³ |
| Tensile Strength | 53571 | 30 | N/cm ² |
| Elongation | 53571 | 167 | % |
| Tear resistance | 53575 | 1,87 | N/mm |
| Compressive strength, deflection 50% | 53577 | 80 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0381 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 1,5 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 2600 | |
| Recommended working temperature | | -50 - +95 | °C |

Fire resistance class

FMVSS 302 and DIN 4102 B2



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FAGERDALA WORLD FOAMS

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Technical Information

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Fawo[®] Ion 30M

| Property | Method DIN | Typical Value | Unit |
|--------------------------------------------|------------|---------------|--------------------|
| Density | 53420 | 30 | kg/m ³ |
| Tensile Strength | 53571 | 24 | N/cm ² |
| Elongation | 53571 | 204 | % |
| Tear resistance | 53575 | 1,38 | N/mm |
| Compressive strength, deflection 50% | 53577 | 71 | kPa |
| Thermal conductivity + 10°C | 53612 | 0,0372 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 1,5 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 3300 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Technical Information

Revision no. 3 14.08.03

Fawo[®] Ion 30 ME

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 30 | kg/m ³ |
| Tensile Strength | 53571 | 31 | N/cm ² |
| Elongation | 53571 | 238 | % |
| Tear resistance | 53575 | 1,24 | N/mm |
| Compressive strength, deflection 50% | 53577 | 74 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0353 | W/Km |
| Water absorption 24 d | 53428 | <1.1 | vol.-% |
| Water vapour transmission | 53429 | 1,5 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 3300 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Fawo[®] Ion 40N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 40 | kg/m ³ |
| Tensile Strength | 53571 | 38 | N/cm ² |
| Elongation | 53571 | 174 | % |
| Tear resistance | 53575 | 1,93 | N/mm |
| Compressive strength, deflection 50% | 53577 | 84 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0397 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 1,36 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 2936 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



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FAGERDALA WORLD FOAMS

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Fawo[®] Ion 45N

| Property | Method DIN | Typical Value | Unit |
|--------------------------------------------|------------|---------------|--------------------|
| Density | 53420 | 45 | kg/m ³ |
| Tensile Strength | 53571 | 42 | N/cm ² |
| Elongation | 53571 | 181 | % |
| Tear resistance | 53575 | 2,16 | N/mm |
| Compressive strength, deflection 50% | 53577 | 97 | kPa |
| Thermal conductivity + 10°C | 53612 | 0,0406 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 1,28 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 3118 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Fawo[®] Ion 50N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 50 | kg/m ³ |
| Tensile Strength | 53571 | 47 | N/cm ² |
| Elongation | 53571 | 188 | % |
| Tear resistance | 53575 | 2,38 | N/mm |
| Compressive strength, deflection 50% | 53577 | 93 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0414 | W/Km |
| Water absorption 24 d | 53428 | <1.1 | vol.-% |
| Water vapour transmission | 53429 | 1,2 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 3300 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Fawo[®] Ion 60N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 60 | kg/m ³ |
| Tensile Strength | 53571 | 58 | N/cm ² |
| Elongation | 53571 | 192 | % |
| Tear resistance | 53575 | 3,04 | N/mm |
| Compressive strength, deflection 50% | 53577 | 110 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0431 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 1,025 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 5725 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS

Fagerdala Termonova Oy

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Fawo[®] Ion 70

| Property | Method DIN | Typical Value | Unit |
|--------------------------------------------|------------|---------------|--------------------|
| Density | 53420 | 70 | kg/m ³ |
| Tensile Strength | 53571 | 69 | N/cm ² |
| Elongation | 53571 | 196 | % |
| Tear resistance | 53575 | 3,69 | N/mm |
| Compressive strength, deflection 50% | 53577 | 126 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0447 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 0,85 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 8150 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS

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Fawo[®] Ion 80N

| Property | Method DIN | Typical Value | Unit |
|--------------------------------------------|------------|---------------|--------------------|
| Density | 53420 | 80 | kg/m ³ |
| Tensile Strength | 53571 | 80 | N/cm ² |
| Elongation | 53571 | 200 | % |
| Tear resistance | 53575 | 4,35 | N/mm |
| Compressive strength, deflection 50% | 53577 | 142 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0463 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 0,675 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 10575 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Fawo[®] Ion 90N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 90 | kg/m ³ |
| Tensile Strength | 53571 | 91 | N/cm ² |
| Elongation | 53571 | 204 | % |
| Tear resistance | 53575 | 5,01 | N/mm |
| Compressive strength, deflection 50% | 53577 | 159 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0481 | W/Km |
| Water absorption 24 d | 53428 | <1.1 | vol.-% |
| Water vapour transmission | 53429 | 0,5 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 13000 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Fawo[®] Ion 90NFR

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 90 | kg/m ³ |
| Tensile Strength | 53571 | 91 | N/cm ² |
| Elongation | 53571 | 204 | % |
| Tear resistance | 53575 | 5,01 | N/mm |
| Compressive strength, deflection 50% | 53577 | 159 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0481 | W/Km |
| Water absorption 24 d | 53428 | <1.1 | vol.-% |
| Water vapour transmission | 53429 | 0,5 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 13000 | |
| Recommended working temperature | | -50 - +95 | °C |

Fire resistance class

FMVSS 320 and DIN 4120 B2§



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Fawo[®] Ion 100N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 100 | kg/m ³ |
| Tensile Strength | 53571 | 100 | N/cm ² |
| Elongation | 53571 | 205 | % |
| Tear resistance | 53575 | 5,85 | N/mm |
| Compressive strength, deflection 50% | 53577 | 163 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0499 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 0,47 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 13818 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Fawo[®] Ion 130N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 130 | kg/m ³ |
| Tensile Strength | 53571 | 127 | N/cm ² |
| Elongation | 53571 | 209 | % |
| Tear resistance | 53575 | 8,35 | N/mm |
| Compressive strength, deflection 50% | 53577 | 174 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0559 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 0,39 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 16273 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Fawo[®] Ion 160N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 160 | kg/m ³ |
| Tensile Strength | 53571 | 159 | N/cm ² |
| Elongation | 53571 | 220 | % |
| Tear resistance | 53575 | 9,5 | N/mm |
| Compressive strength, deflection 50% | 53577 | 227 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0625 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 0,3 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 20364 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Fawo[®] Ion 180N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 180 | kg/m ³ |
| Tensile Strength | 53571 | 180 | N/cm ² |
| Elongation | 53571 | 228 | % |
| Tear resistance | 53575 | 10,34 | N/mm |
| Compressive strength, deflection 50% | 53577 | 262 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0669 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 0,25 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 20364 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



FAGERDALA WORLD FOAMS
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Fawo[®] Ion 200N

| <u>Property</u> | <u>Method DIN</u> | <u>Typical Value</u> | <u>Unit</u> |
|--------------------------------------------|-------------------|----------------------|--------------------|
| Density | 53420 | 200 | kg/m ³ |
| Tensile Strength | 53571 | 201 | N/cm ² |
| Elongation | 53571 | 235 | % |
| Tear resistance | 53575 | 11,13 | N/mm |
| Compressive strength, deflection 50% | 53577 | 297 | kPa |
| Thermal conductivity +10°C | 53612 | 0,0713 | W/Km |
| Water absorption 24 d | 53428 | <1.0 | vol.-% |
| Water vapour transmission | 53429 | 0,2 | g/m ² d |
| Coefficient of vapour diffusion resistance | 53429 | 22000 | |
| Recommended working temperature | | -50 - +95 | °C |
| Fire resistance class | | - | |



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