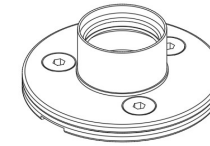


Air inlet 25 KS-A03

Systems

Technical Datasheet

The air inlet 50 consists out of aluminium components, connected together with stainless steel countersunk screws DIN 7991. It enables the connection of the air duct with membrane cushions.



| General | | | |
|-----------------------------|--------------------|-------|---------------|
| Typical Properties | | Units | Typical Value |
| Outside diameter | | mm | 74 |
| Open diameter | | mm | 25 |
| Height | | mm | 29 |
| Weight | | g/pc | 87 |
| Material | | | EN-AW6026 |
| Surface Protection standard | anodisement E6/EV1 | µm | 20 |

Flex pipe 25/4 KS-A03-100A

Air Management



Technical Datasheet

The flex pipe 25/4 is a hose made of perfluoroethylenepropylen (FEP). It is usually used to connect the air inlet with the air distribution duct by pneumatic pre-stressed ETFE-Membrane constructions. Following datasheet refers to the physical properties of perfluoroethylenepropylen (FEP). UV - Resistances is unlimited under sunlight (no detectable aging)

| Typical Properties | Test Method | Units | Typical Value |
|---|--------------|----------------------|------------------|
| Inside diameter | | mm | 25 |
| Density | DIN 53479 | g/cm ³ | 2,14 - 2,19 |
| Max. operating temperature | | °C | 205 |
| Flammability | | | non-flammable |
| Water absorption | DIN 53495 | % | < 0,01 |
| Tensile strength at 23°C | | Mpa | 19 - 25 |
| Tensile strength at 150°C | | Mpa | 4 - 6 |
| Yield strength at 23°C | DIN 53455 | N/mm ² | 12 |
| Elongation at 23°C | DIN 53455 | % | 250 - 350 |
| Tensile E-modulus at 23°C | DIN 53457 | N/mm ² | 350 - 700 |
| Flexural E-modulus at 23°C | DIN 53457 | N/mm ² | 660 - 680 |
| Ball indentation hardness 132/60 | DIN 53456 | N/mm ² | 23 - 29 |
| Shore indentation D | DIN 53505 | N/mm ² | 55 - 60 |
| Melting temperature | ATSM 2116 | °C | 250 - 282 |
| Heat deflection temp. A (18,5) kp/cm ³ | DIN 53461 | °C | 51 |
| Heat deflection temp. B (4,6) kp/cm ³ | ISO R 75 | °C | 70 |
| Lin. coefficient of thermal expansion | | 1/K*10 ⁻⁵ | 8 - 14 |
| Heat conductivity at 23°C | DIN 52612 | W/m*K | 0,2 |
| Specific heat at 23°C | | kJ/kg*K | 1,17 |
| Oxygen index | | % | > 95 |
| Dielectric constant at 10 ³ Hz and 10 ⁶ Hz | DIN 53483 | | 2,1 |
| Dielectric loss factor at 10 ³ Hz and 10 ⁶ Hz | DIN 53483 | | 2 - 8 |
| Specific volume resistivity | ICE 93 + 167 | Ohm x cm | 10 ¹⁸ |
| Surface resistivity | ICE 93 + 167 | Ohm | 10 ¹⁶ |
| Comparative tracking index | DIN 53480 | | Ka 3c |
| Arc resistance | ATSM 495 | sec. | >300 |
| Dielectric strength | DIN 53481 | KV/mm | 50 - 80 |