

# IsoUsch 300

Specification **Insulation-washer for flange-insulations according to DIN – cathodic corrosion protection**

Dimensions for flange-screws M10 – M52  
 (The dimensions of the IsoUsch 300 depends on the stell-washer according to DIN 125 and have a 3mm bigger outer diameter than according to DIN 125)

**Isolation**  
 Binder Polyimide resin  
 Material glas filament fabrics  
 Appearance brown

|                            | <i>unit</i>       | <i>value</i>                              | <i>test method</i>                     |
|----------------------------|-------------------|---|--|
| Thickness                  | mm                | 4,0                                       |  |
| Density                    | g/cm <sup>3</sup> | 1,9 - 2,0                                 | DIN 53479                              |
| Tensile strength           | MPa               | 250                                       | DIN 53455                              |
| Residual strength          | MPa               | 500 / 350 / 300<br>(20°C / 180°C / 220°C) | DIN 53454                              |
| Bowing strength            | MPa               | 300                                       | DIN 53452                              |
| Operating temperature      | °C                | 280                                       | IEC 60216/T1<br>(continuous operation) |
| Maximum temperature        | °C                | 300                                       | DIN 44904                              |
| Specific volume resistance | Ωcm               | 10 <sup>16</sup>                          | DIN/VDE 0303T30                        |
| Dielectric constant (1MHz) |                   | 4,7                                       | DIN 53483                              |
| Dielectric strength        | kV/mm             | 15-20                                     | DIN 53841                              |
| Waterabsorption            | weight %          | < 0,2                                     | DIN 53495                              |

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