

# Semi-finished products faigle Industrieplast GmbH +43 5574 6811

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## Semi-finished products CH/LI faigle Igoplast AG +41 71 747 41 41

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Injection moulded parts faigle Kunststoffe GmbH +43 5574 6811 kunststoffe@faigle.com

Material datasheet Material: PAS-PEI

#### mechanical characteristics

| Characteristic                              | Standard                                | Unit        | Value |
|---|---|-------------|-------|
| Yield stress (+23°C, dry)                   | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | MPa (N/mm²) | 110   |
| Tensile E-modulus (+23°C, dry)              | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | MPa (N/mm²) | 3100  |
| Charpy notched impact strength (+23°C, dry) | ISO 179<br>DIN 53453                    | kJ/m²       | 4     |

#### thermal characteristics

| Characteristic                                      | Standard                               | Unit    | Value |
|---|--|---------|-------|
| min. Operating temperature (continuous)             |  | °C      | -50   |
| max. service temperature (continuous)               |  | °C      | 170   |
| max. service temperature (short-term)               |  | °C      | 210   |
| Heat deflection temperature HDT/A (1.8 N/mm²)       | ISO 75-1/-2<br>DIN 53461<br>ASTM D 648 | °C      | 200   |
| Coefficient of linear thermal expansion (23 - 60°C) | ISO 11359                              | 10^-6/K | 45    |
| Thermal conductivity (+23°C)                        | DIN 52612                              | W/(m×K) | 0.24  |

#### combustibility characteristics

| Characteristic    | Standard        | Unit  | Value |
|-------------------|-----------------|-------|-------|
| UL94 flammability | IEC 60695-11-10 | class | V0    |

### electrical characteristics

| Characteristic            | Standard   | Unit | Value |
|---------------------------|--|------|-------|
| Surface resistivity (dry) | DIN IEC 60093<br>(DIN VDE 0303-30)<br>ASTM D 257 | Ω    | 10^15 |

These data are guideline values which are subject to change depending on the type of manufacture of the test specimens and stress. These data are based on our own experience and on manufacturer's data. However, they are provided without guarantee, since each application is different and must be considered with reference to its specific influence parameters.

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#### physical characteristics

| Characteristic  | Standard                            | Unit              | Value |
|---|-------------------------------------|-------------------|-------|
| Density, Gross density  | ISO 1183<br>DIN 53479<br>ASTM D 792 | g/cm <sup>3</sup> | 1.27  |
| Moisture absorption at saturation - standard climate (23°C, 50% RF) | ISO 62 ISO 1110                     | %                 | 0.5   |

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