

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

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faigle Igoplast AG

Semi-finished products CH/LI

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

Material datasheet

Material: PAS-PMMA XT Spiegel (Mirror)

## mechanical characteristics

| Characteristic                              | Standard                                | Unit        | Value |
|---|---|-------------|-------|
| Tensile strength (+23°C, dry)               | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | MPa (N/mm²) | 100   |
| Elongation at break (+23°C, dry)            | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | %           | 4.5   |
| Tensile E-modulus (+23°C, dry)              | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | MPa (N/mm²) | 3300  |
| Max. permissible pressure load (continuous) | Faigle                                  | MPa (N/mm²) | 16    |
| Charpy impact strength (+23°C, dry)         | ISO 179<br>DIN 53453                    | kJ/m²       | 15    |
| Charpy notched impact strength (+23°C, dry) | ISO 179<br>DIN 53453                    | kJ/m²       | 1.6   |

### thermal characteristics

| Characteristic                          | Standard  | Unit    | Value |
|---|-----------|---------|-------|
| min. Operating temperature (continuous) |           | °C      | -40   |
| max. service temperature (continuous)   |           | °C      | 70    |
| max. service temperature (short-term)   |           | °C      | 95    |
| Thermal conductivity (+23°C)            | DIN 52612 | W/(m×K) | 0.19  |

# combustibility characteristics

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

## physical characteristics

| Characteristic         | Standard                            | Unit  | Value |
|------------------------|-------------------------------------|-------|-------|
| Density, Gross density | ISO 1183<br>DIN 53479<br>ASTM D 792 | g/cm³ | 1.19  |

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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### chemical characteristics

| Characteristic          | Standard | Unit | Value      |
|-------------------------|----------|------|------------|
| UV light and weathering |          |      | constant   |
| Physiology              | Faigle   |      | unsuitable |

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