

ABS-HH

HP-PM revision: 06/04

Description

Sheets and foils produced from high impact ABS with increased heat resistance (high heat).

| Properties | Test method | Unit | Value |
|--|-------------|-------------------|-------------------------------|
| Mechanical properties | | | |
| Tensile yield strength 50 mm/min | ISO 527 | MPa | 43 |
| Tensile elongation at yield 50 mm/min | ISO 527 | % | 2,7 |
| Strain at break | ISO 527 | % | |
| Tensile modulus 1 mm/min | ISO 527 | MPa | 2140 |
| Flexural strength 2 mm/min | ISO 178 | MPa | 65 |
| Charpy-notched impact strength 23°C / -30°C | ISO 179/1eA | kJ/m ² | 23 / 13 |
| Izod-notched impact strength 23°C / -30°C | ISO 180/1A | kJ/m ² | 25 / 12 |
| Ball indentation hardness | ISO 2039 | MPa | 90 |
| Thermal properties | | | |
| Vicat softening temperature VST/B/50 | ISO 306 | °C | 102 |
| Vicat-softening temperature VST/A/120 | ISO 306 | °C | |
| Heat deflection temperature 1.8 Mpa, annealed | ISO 75-1 | °C | 101 |
| Electrical properties | | | |
| Dielectric constant at 100Hz / 1MHz | IEC 60250 | | |
| Dissipation factor at 100 Hz / 1MHz | IEC 60250 | 10 Exp. -4 | |
| Volume resistivity | IEC 60093 | Ohm x m | |
| CTI, Solution A | IEC 60112 | | |
| Dielectric strength K20/P50 | IEC 60243-1 | kV/mm | |
| Optical properties | | | |
| Surface gloss | DIN 67530 | % | depends on colour and surface |
| Flammability | | | |
| UL94 rating at 1.6 mm thickness | UL 94 | class | HB |
| Horizontal burning speed, 2 mm thickness for uncoloured products | 3795 | mm/min | 55 |
| Other properties | | | |
| Density at 23 °C | ISO 1183 | g/cm ³ | 1,05 |

Specific features

ABS-HH is high impact resistant and has a good thermal stability. ABS-HH is particularly suitable for applications which demand a high softening range and thus a higher usual operation temperature. ABS-HH has normally a medium-gloss surface.

Note

The information submitted in this publication is based on our current knowledge and experience. Tested are uncoloured products. In view of many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of the suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.