

Universal Polythex Kunststoffe GmbH Friedrich-Ebert-Straße 15 52531 Übach-Palenberg

TECHNICAL DATA SHEET

ABS Virgin

DESCRIPTION

ABS (Acrylonitrile Butadiene Styrene) has very good rigidity and toughness, combined with a good heat resistance. It's perfectly suited for thermoforming.

The product suits most application where robustness is needed.

KEY FEATURES

- Product is very good recyclable
- Flammability: UL 94 HB 1,5 mm
- Economically friendly product

APPLICATIONS

- Automotive parts
- Technical articles
- Tool- and machinery housing
- Construction

| | | |
|------------------------------|------------|--|
| PRODUCT AVAILABILITY: | Colour: | Standard Colours, metallic, customer match |
| | Surface: | natural smooth and several embossing's |
| | Thickness: | 0,3 – 10 mm ¹ |
| | Width: | 300 – 2500 mm ¹ |

| | Test method | Unit | Values |
|---|-------------------|-------------------|--------|
| Technical Properties | | | |
| Density ² | ISO 1183 | g/cm ³ | 1,10 |
| Charpy Notched Impact Strength, 23° C | ISO 179/1eA | kJ/m ² | 18 |
| Tensile strength at break, 23 °C | ISO 527/50 mm/min | MPa | 45 |
| Tensile Modulus of elasticity | ISO 527/ 1mm/min | MPa | 2100 |
| Elongation at break (MD) | ISO 527/50 mm/min | % | 2,7 |
| Thermal Properties | | | |
| Vicat Softening Temperature VST/B/50 (50N, 50 °C/h) | ISO 306 | °C | 102 |
| Temperature of deflection under load (1,8 MPa | ISO 75-1,-2 | °C | 101 |
| Flammability Rating | UL 94 | > 1,5 mm | HB |

¹ The dimension of the sheet is depending on embossing, colour, thickness, size of order – please ask our sales team

² The density is only a guide and depends on pigments and additives used

TECHNICAL DATA SHEET - additional information

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Storage and Drying

The product should be thermoformed ideally directly after extrusion. If material is stored in humid conditions it is recommended to dry it before thermoforming. We recommend drying it at 80°C for appr. 2 hours, for each additional millimeter in thickness add an extra hour of drying.

UV Resistance

Natural ABS when exposed to direct UV may discolor and become brittle in a matter of months. Black pigmented sheet will improve UV resistance. An addition of a UV stabilizer can further improve its longevity. For higher UV protection we recommend our ABS/PMMA 3 layer sheet.

Chemical Resistance

The chemical resistance is depends on different factors therefore we advise you to first test the material. If you have questions – ask our sales team.

If you have any further questions, please do not hesitate to contact us.

With best regards

Universal Polythex Kunststoffe GmbH

Disclaimer:

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