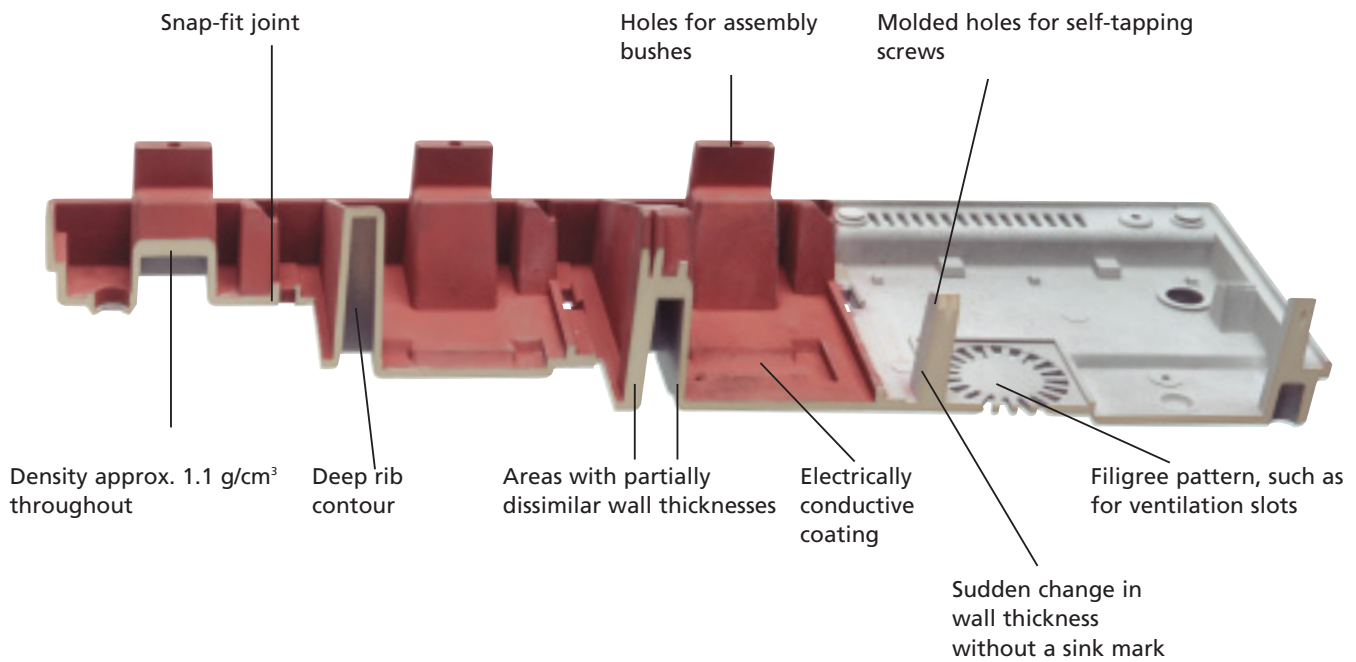


## Baydur® 110



Thin-walled, compact structure

Extremely high flow length/wall thickness ratio

Large-area parts with long flow lengths

High Impact strength

Filigree moldings similar to thermoplastic parts can be achieved

Snap-fit joints can be integrated in the molded part thanks to the tough and resilient nature of the material

Inexpensive aluminum molds requiring only a short lead time

Attractive for medium-sized series too

Short cycle times

Flame retardant to UL Subject 94

Flame retardant to DIN 5510 for rail vehicles

Suitable for processing with fillers

CFC-free

Recyclable

## Baydur<sup>®</sup> 110

### Technical Data

| Product                          | Baydur <sup>®</sup> 110 |                        |                          |                          |
|----------------------------------|-------------------------|------------------------|--------------------------|--------------------------|
| Property                         | Unit                    | Standard               | Specimen                 | without flame retardant* |
| Density                          | g/cm <sup>3</sup>       | ISO/R 1183 / DIN 53479 | Small standard testpiece | 1.05                     |
| Tensile strength                 | MPa                     | ISO/R 527 / DIN 53455  | Dumb-bell specimen No.3  | 50                       |
| Elongation at break              | %                       | ISO/R 527 / DIN 53455  | Dumb-bell specimen No.3  | 14                       |
| Flexural stress at 3.5% strain   | MPa                     | ISO 178 / DIN 53452    | 80 x 10 x 4 mm           | 58                       |
| Modulus of elasticity in bending | MPa                     | DIN 53457              | 80 x 10 x 4 mm           | 2000                     |
| Impact strength at 23°C          | kJ/m <sup>2</sup>       | ISO/R 179 / DIN 53453  | Small standard testpiece | 57                       |
| Shore D hardness                 |                         |                        |                          | 75-77                    |

#### Thermal properties (individual measurements)

|  |                      |                          |    |
|--|----------------------|--------------------------|----|
| Coefficient of thermal expansion (20°C) 10 <sup>-6</sup> , K <sup>-1</sup> | VDE 0304 / DIN 53572 | Small standard testpiece | 90 |
|--|----------------------|--------------------------|----|

#### Heat deflection temperature

|  |    |                 |                 |     |
|--|----|-----------------|-----------------|-----|
|  | °C | DIN EN ISO 75-1 | 120 x 15 x 4 mm | 90  |
|  | °C | DIN EN ISO 75-2 | 120 x 15 x 4 mm | 115 |

Material data from our raw materials suppliers. \* Properties differ with the addition of flame retardants.