



# ATECH 5100 (50/50)

ATECH 5100 (50/50) is PC/ABS sheet coextruded with Matt ABS layer. The product offers good impact strength and wide working temperature range. ATECH® 5100 has good chemical resistance to most common chemicals and offers better fire performance than ABS.

#### ALSO AVAILABLE IN:

- ATECH 5103 with extra UV stabilizers added to improve weather resistance
- ATECH 5110 with the matt surface on both sides

#### RECYCLING

Our total recycling concept (TRC), is a major advantage in today's environmentally friendly market. The TRC concept covers all types of sheets to provide you with cost saving. Off-cuts from the sheets can be used in production of new sheets by co-extruding virgin material as the top layer. Care is taken that all quality requirements are met.

#### ATECH 5100 BENEFITS:

- Matt surface finish after thermoforming
- Easy to thermoform
- High impact strength
- Good thermal qualities

#### APPLICATION AREAS:

Suitable for demanding automotive parts which are exposed to secondary UV light, and other tough industrial applications where a supermatt finish is required.

#### DELIVERY PROGRAM:

Standard size: 1250 x 2050 mm

Max width: 1750 mm

Thickness range: 2 – 7 mm

Colours: customer specific colours

Embossing: 00/00, 00/35, 00/40, other upon request

## ATECH 5100 TYPICAL PROPERTY VALUES

| Property  | Value    | Unit              | Standard      |
|---|----------|-------------------|---------------|
| <b>Physical properties</b>                                  |          |                   |               |
| Density   | 1,13     | g/cm <sup>3</sup> | ISO 1183      |
| <b>Mechanical properties</b>                                |          |                   |               |
| Tensile strength at yield                                   | 41       | N/mm <sup>2</sup> | ISO 527-2     |
| Tensile elongation at yield                                 | >3,5     | %                 | ISO 527-2     |
| Tensile strength at break                                   | 40       | N/mm <sup>2</sup> | ISO 527-2     |
| Tensile elongation at break                                 | >50      | %                 | ISO 527-2     |
| Elastic modulus   | 1950     | N/mm <sup>2</sup> | ISO 527-2     |
| Flexural modulus*   | 2100     | N/mm <sup>2</sup> | ISO 178       |
| Flexural strength*  | 73       | N/mm <sup>2</sup> | ISO 178       |
| Izod notched impact strength +23°C                          | 35       | kJ/m <sup>2</sup> | ISO 180/A     |
| Izod notched impact strength -23°C                          | 23       | kJ/m <sup>2</sup> | ISO 180/A     |
| Izod notched impact strength -30°C                          | 20       | kJ/m <sup>2</sup> | ISO 180/A     |
| Charpy notched impact strength +23°C                        | 34       | kJ/m <sup>2</sup> | ISO 179-1/1eA |
| Charpy notched impact strength -23°C                        | 22       | kJ/m <sup>2</sup> | ISO 179-1/1eA |
| Charpy notched impact strength -30°C                        | 20       | kJ/m <sup>2</sup> | ISO 179-1/1eA |
| Charpy notched impact strength -40°C                        | 19       | kJ/m <sup>2</sup> | ISO 179-1/1eA |
| Ball indentation hardness*                                  | 87       | N/mm <sup>2</sup> | ISO 2039      |
| <b>Thermal properties</b>                                   |          |                   |               |
| Vicat temperature VST/B120 (0,45 N/mm <sup>2</sup> )        | 115      | °C                | ISO 306       |
| Heat deflection temperature HDT A (1,80 N/mm <sup>2</sup> ) | 100      | °C                | ISO 75        |
| <b>Fire properties</b>                                      |          |                   |               |
| Flammability 1,6 mm   | Class HB |                   | UL 94         |
| Flammability 3,0 mm   | < 5      | mm/min            | US-FMVSS 302  |

\* Value based on information given from resin supplier.

Properties reported here are typical values. Arla Plast makes no representation that the material in any particular shipment will conform exactly to the values given. The above information is based upon experience and given in good faith. Due to many factors which are outside our knowledge and control, no warranty is given or is to be implied with respect to such information. Detailed product specification and technical manual/information is available on request.