



# ATECH<sup>®</sup> 3100

ATECH is a series of sheets based on ABS which is a raw material with very high impact-strength. ABS also has impressive thermal qualities and is easy to thermoform and fabricate. The ATECH 3100 is a super high impact matt ABS which remains matt after thermoforming.

#### ALSO AVAILABLE IN:

- ATECH 3103 has extra UV stabilizers added to improve weather resistance
- ATECH 3110 with the matt surface on both sides
- Dual colouring to optimize to your needs

#### 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<sup>®</sup> 3100 BENEFITS:

- Supermatt 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: 1,5 – 8 mm

Colours: 14 standard colours and customer specific colours upon request

Embossing: 00/00, 00/30, 00/35, 00/40, 00/50, 00/57

## ATECH® 3100 TECHNICAL SPECIFICATIONS

Property	Value	Unit	Standard
<b>Physical properties</b>			
Density	1,05	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical properties</b>			
Tensile strength at yield	31	MPa	ISO 527-2
Tensile elongation at yield	>2	%	ISO 527-2
Tensile strength	31	MPa	ISO 527-2
Tensile elongation at Tensile strength	>2	%	ISO 527-2
Tensile strength at break	25	MPa	ISO 527-2
Tensile elongation at break	>40	%	ISO 527-2
Elastic modulus	1600	MPa	ISO 527-2
Flexural strength*	55	MPa	ISO 178
Flexural modulus*	2000	MPa	ISO 178
Izod Impact, notched +23°C	27	kJ/m <sup>2</sup>	ISO 180/A
Izod Impact, notched -23°C	13	kJ/m <sup>2</sup>	ISO 180/A
Izod Impact, notched -30°C	12	kJ/m <sup>2</sup>	ISO 180/A
Charpy Impact, notched +23°C	26	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy Impact, notched -23°C	13	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy Impact, notched -30°C	11	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy Impact, notched -40°C	10	kJ/m <sup>2</sup>	ISO 179-1/1eA
Ball indentation hardness*	77	MPa	ISO 2039
<b>Thermal properties</b>			
Linear coefficient of thermal expansion (20-70 °C)	65x10 <sup>-6</sup>	K <sup>-1</sup>	ISO 11359-2
Vicat softening temperature B120	96	°C	ISO 306
Heat deflection temperature HDT-A	86	°C	ISO 75-2
Mould shrinkage	0,6 – 0,7	%	ISO 294-4

\* 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.