



ABS ATECH[®] 3100

ABS 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 ABS ATECH[®] 3100 is a super high impact matt ABS which remains matt after thermoforming.

ALSO AVAILABLE IN:

- ABS ATECH[®] 3103 has extra UV stabilizers added to improve weather resistance
- ABS 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.

ABS ATECH[®] 3100 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: 2200 mm

Thickness range: 1,5 – 9 mm

Colours: Standard colours and customer specific colours

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

ABS ATECH® 3100 TYPICAL PROPERTY VALUES

Property	Value	Unit	Standard
Physical properties			
Density	1,05	g/cm ³	ISO 1183
Mechanical properties			
Tensile strength at yield	31	N/mm ²	ISO 527-2
Tensile elongation at yield	>2	%	ISO 527-2
Tensile strength at break	25	N/mm ²	ISO 527-2
Tensile elongation at break	>40	%	ISO 527-2
Elastic modulus	1600	N/mm ²	ISO 527-2
Flexural modulus*	2000	N/mm ²	ISO 178
Flexural strength*	55	N/mm ²	ISO 178
Izod notched impact strength +23°C	27	kJ/m ²	ISO 180/A
Izod notched impact strength -23°C	13	kJ/m ²	ISO 180/A
Izod notched impact strength -30°C	12	kJ/m ²	ISO 180/A
Charpy notched impact strength +23°C	26	kJ/m ²	ISO 179-1/1eA
Charpy notched impact strength -23°C	13	kJ/m ²	ISO 179-1/1eA
Charpy notched impact strength -30°C	11	kJ/m ²	ISO 179-1/1eA
Charpy notched impact strength -40°C	10	kJ/m ²	ISO 179-1/1eA
Ball indentation hardness*	77	N/mm ²	ISO 2039
Thermal properties			
Coefficient of linear thermal expansion (20-70 °C)*	65x10 ⁻⁶	K ⁻¹	ISO 11359-2
Vicat temperature VST/B120 (0,45 N/mm ²)	96	°C	ISO 306
Heat deflection temperature HDT A (1,80 N/mm ²)	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 for ABS. 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.