ATECH 3000

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. ATECH® 3000 is a super high impact ABS with a semigloss surface that thermoforms quickly and effectively.

ALSO AVAILABLE IN:

- ATECH 3003 has extra UV stabilizers added to improve weather resistance
- ATECH 3000 FA is a food compliant product version
- Stripes for identification purpose
- Dual colouring to optimize to your need

RECYCLING

Our total recycling concept (TRC), is a major advantage in todays 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 3000 BENEFITS:

- Easy to thermoform
- High impact strength
- Good thermal qualities

APPLICATION AREAS:

In general where a high impact strength material is needed like machine covers, high demanding general purpose & indoor applications.

DELIVERY PROGRAM:

Standard size: 1250 x 2050 mm

Max width: 2200mm

Thickness range: 1,5 – 9 mm

Colours: Standard colours or customer specific colours

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

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ATECH 3000 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.*

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