



Technical Data Sheet ABS HB + décor film*

Feedstock: Acrylonitrile-Butadiene-Styrene

Mechanical properties:

very high dielectric strength

Green density ¹	ISO 1183	≈ 1,05	g/cm ³
Yield stress	ISO 527	30-33	(MPa) N/mm ²
Expansion at yield stress	ISO 527	50-60	%
Impact Charpy +23°C notched	ISO179	≥ 9	kJ/m ²
Impact Charpy -30°C notched	ISO179	≥ 10	kJ/m ²

¹ This value can slightly vary as a result of pigmentation or addition.

Thermal properties:

Permanent service temperature		80	°C	
Vicat Softening Point B/50	ISO 306	≥ 94	°C	
Heat Distortion Temperature (A)	ISO 75	≥ 87	°C	
Thermal conductivity	ASTM C177	0,16	W/mK	<u>1</u>

Electrical properties:

Specific volume resistivity	DIN EN 61340-5-1	10 ¹⁵	Ωcm
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Chemical resistance (ABS in general):

resistant²: plant and animal mineral oils; alcohols; diluted acids; concentrated hydrochloric and phosphoric acid

not resistant: solvents²; concentrated sulphuric and nitric acid³

dissolves in³: esters; ketones; ethylene dichloride; Aceton

²maschinenbau-wissen.de

³resinex.de

* Décor film is without UL authorization.

Current state: 27.11.2017

Ein Unternehmen der





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Inflammability support material:

Flammability rating	UL 94	HB*
UL file numbers	E108538; E162447; E115797	
Glow wire test 650 °C	IEC 695-2-1	-

Designation in technical drawings:

ABS24 GE03 alu-brushed gl.

ABS24	= material and colour (black Acrylonitrile-Butadiene-Styrene)
GE03	= fabric und thickness (fine structured, 3mm)
alu-brushed gl.	= colour décor film (alu-brushed, gleaming)

Colours/Fabric :

N°	Colour	3mm	4mm	5mm	6mm
ABS 24 alu-brushed	support material: black décor film: alu-brushed gleaming	X	X	X	
ABS 24 alu-brushed	support material: black décor film: alu-brushed matt	X	X		X

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More colours, material thicknesses and structures on request!

Printability:

printable

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