

Technical Data Sheet ABS HB

Feedstock: Acrylonitrile-Butadiene-Styrene

Mechanical properties:

very high dielectric strength

Green density ¹	ISO 1183	≈ 1,05-1,12	g/cm ³
Yield stress N/mm ²	ISO 527	≥ 35	(MPa)
Expansion at yield stress	ISO 527	> 10-50	%
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

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 ⁴Kunststoffe.de

Current state: December 2020

