

Technical Data Sheet ABS V0

Feedstock: Acrylonitrile-Butadiene-Styrene

Mechanical properties:

	<i>very high dielectric strength</i>		
Green density ¹	ISO 1183	≈ 1,2	g/cm ³
Yield stress	ISO 527	-	(MPa) N/mm ²
Expansion at yield stress	ISO 527	> 8	%
Impact Charpy +23°C notched	ISO179	10	kJ/m ²
Impact Charpy -30°C notched	ISO179	4,6	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	93	°C
Heat Distortion Temperature (A)	ISO 75	83	°C
Thermal conductivity	ASTM C177	-	W/mK

Electrical properties:

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

resistant ² :	plant and animal mineral oils; alcohols; diluted acids; concentrated hydrochloric and phosphoric acid
not resistant:	solvents ² ; concentrated sulphuric and nitric acid ³
dissolves in ³ :	esters; ketones; ethylene dichloride; Aceton

²maschinenbau-wissen.de

³resinex.de

Current state: 10.03.2020

