



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):

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

Current state: 27.11.2017

Ein Unternehmen der



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Inflammability support material:

Flammability rating	UL 94	V0	
UL file number	E194157		
Glow wire test 650 °C	IEC 695-2-1		passed

Designation in technical drawings:

ABS04 V0 GE03

ABS04	= material and colour
V0	= UL certification
GE03	= texture and thickness (fine structured; 3mm)

Colours/Structures :

Nr.	Colour	2mm	3mm	4mm	6mm
ABS 03	stone grey similar RAL 7030	X	X		
ABS 04	light grey similar RAL7035	X	X	X	X
ABS 15	sky blue similar RAL5015		X		
ABS 18	grey white similar RAL9002		X	X	X
ABS 24	signal black similar RAL9004	X	X	X	X
ABS 34	anthracite grey similar RAL7016		X	X	X
ABS 35	traffic white similar RAL 9016		X	X	X

GE = fine textured

More colours and material thicknesses on request!

Printability:

Fine textured: printable

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