

# Technical Data Sheet ABS V0

**Feedstock:** Acrylonitrile-Butadiene-Styrene

## Mechanical properties:

Green density <sup>1</sup>	ISO 1183	≈ 1,2	g/cm <sup>3</sup>
Yield stress	ISO 527	-	(MPa) N/mm <sup>2</sup>
Expansion at yield stress	ISO 527	> 8	%
Impact Charpy +23°C notched	ISO179	10	kJ/m <sup>2</sup>
Impact Charpy -30°C notched	ISO179	4,6	kJ/m <sup>2</sup>

<sup>1</sup> 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 <sup>15</sup>	Ωcm
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## Chemical resistance (ABS in general):

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

<sup>2</sup>maschinenbau-wissen.de

<sup>3</sup>resinex.de

Current state: 10.03.2020

Ein Unternehmen der



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### Inflammability support material:

Flammability rating	UL 94	V0
UL file number	E128799	

### **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
<b>ABS 03</b>	<b>stone grey</b> similar RAL 7030	X	X		
<b>ABS 04</b>	<b>light grey</b> similar RAL7035	X	X	X	X
<b>ABS 18</b>	<b>grey white</b> similar RAL9002		X	X	X
<b>ABS 24</b>	<b>signal black</b> similar RAL9004	X	X	X	X
<b>ABS 34</b>	<b>anthracite grey</b> similar RAL7016		X	X	X
<b>ABS 35</b>	<b>traffic white</b> similar RAL 9016		X	X	X

GE = fine textured

**More colours and material thicknesses on request!**

## Printability: