



Technical data for Gibo Plast A/S

**ABS**

[CAS: 9003-56-9](#)

Listed data is the minimum requirements for the all products in that specific kategori, ABS Regrind, ABS 500, ABS 510, ABS 520, unless marked with (Max).  
Data with a tolerance is marked by(±X%). All products are extruded.

#### GENERAL

Property	Method	Unit	ABS Regrind	ABS 500	ABS 510	ABS 520
Density (±2%)	ISO 1183	g/cm <sup>3</sup>	1.08	1.07	1.07	1.04
Water absorption (Max)	DIN EN ISO 62 Method 1	%	0.30	0.30	0.30	0.30
Ball indentation hardness	ISO 2039-1	MPa	-	90	85	65
Flammability	UL 94	-	HB	HB	HB	HB

#### MECHANICAL

Property	Method	Unit	ABS Regrind	ABS 500	ABS 510	ABS 520
Tensile strength	ISO 527-2	MPa	32	46	-	-
Elongation at break	ISO 527-2	%	35	40	15	9
Tensile modulus	ISO 527-2	MPa	2100	1595	1900	1900
Flexural strength	ISO 178	MPa	-	70	60	56
Flexural modulus	ISO 178	MPa	-	2100	-	-
Yield stress	ISO 572-1	MPa	32	24	40	38
<b>Impact strength @23°C (Charpy notched)</b>	<b>ISO 179-1</b>	<b>KJ/m<sup>2</sup></b>	<b>13</b>	<b>9</b>	<b>23</b>	<b>36</b>

#### THERMAL

Property	Method	Unit	ABS Regrind	ABS 500	ABS 510	ABS 520
Vicat temperature (B 50) (±1%)	ISO 306	°C	-	100	100.5	102
Service temperature (Continuous use)	-	°C	85	85	85	85
Max. temperature (Short term use)	-	°C	100	100	100	100

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