

## Technical Data Sheet ALCOM ABS 530/3.1 CF

Polymeric basis:	acrylonitrile-butadiene-styrene-copolymer (ABS)
Filler / Additive system:	carbon fiber
Processing:	injection moulding (T <sub>mass</sub> : 220 - 270 °C, T <sub>mould</sub> : 50 - 80 °C)
Special properties:	electrical conductivity, high rigidity
Typical applications:	transport boxes

Properties	Test figures	Units	Standards
<b>Physical properties</b>			
Density	1.10	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical properties</b> *			
Tensile modulus	6,300	MPa	DIN EN ISO 527
Tensile stress at break	70	MPa	DIN EN ISO 527
Tensile strain at break	1.4	%	DIN EN ISO 527
Flexural modulus	5,400	MPa	DIN EN ISO 178
Flexural strength	100	MPa	DIN EN ISO 178
Charpy impact strength (23°C)	17	kJ/m <sup>2</sup>	DIN EN ISO 179/1eU
Charpy notched impact strength (23°C)	4.7	kJ/m <sup>2</sup>	DIN EN ISO 179/1eA
<b>Thermal properties</b>			
Heat deflection temperature HDT A (1.8 MPa)	99	°C	DIN EN ISO 75
Vicat softening point VST B/50	101	°C	DIN EN ISO 306
<b>Electrical properties</b> d/h			
Surface resistivity	<10,000	Ohm	IEC 93
<b>Further properties</b>			
Melt volume rate MVR (220/10)	13	cm <sup>3</sup> /10 min	DIN ISO 1133

\* testing on unconditioned test specimen (dry as moulded)

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