

## Technical Data Sheet



### ALCOM ABS 530/3.1 CF

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	8 % carbon fibres
Special Features	electrically conductive, reduced surface resistivity
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
Typical Applications	housings, functional components

Pre-Drying Conditions      80 °C in a dry air (dessiccant) dryer  
for 2-4 h  
80 °C in an air circulating dryer  
for 3-6 h  
max. moisture content <0,10 %

Processing Injection Moulding      melt temperature 230-270 °C  
mould temperature 60-90 °C

Storage      dry, protected from light

Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	6500	MPa	ISO 178
Flexural Strength	108	MPa	ISO 178
Tensile Modulus	6900	MPa	ISO 527
Tensile Strength at Break	80	MPa	ISO 527
Tensile Elongation at Break	1.2	%	ISO 527
Impact Strength (Charpy, 23°C)	18	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	16	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	102	°C	ISO 306
HDT / A (1,8 MPa)	101	°C	ISO 75-1/-2
<b>Electrical Properties</b>			
Surface Resistance	100	Ohm	IEC 62631-3-2
<b>Rheological Properties</b>			
Melt Index (MVR)	12	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4
<b>Physical Properties</b>			
Density	1080	kg/m <sup>3</sup>	ISO 1183