carbonauten® ABS Tech BioC 40/70/5 IM

ABS-CD40 carbonauten GmbH

Product Texts

carbonauten® ABS Tech BioC 40/70/5 IM is a 40% biocarbon-filled ABS bio-composite.
carbonauten® ABS Tech BioC 40/70/5 IM bio-composite contains technical biocarbon primarily obtained from woody waste residues. The CO2 footprint is calculated to -0,42 kg CO2 equivalent/kg. Compared to a conventional ABS product, you save 3,71 kg CO2 equivalent/kg.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**5**	g/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3600**	MPa	ISO 527
Tensile Strength	**35**	MPa	ISO 527
Izod notched impact strength, +23°C	**2**	kJ/m²	ISO 180/1A

Other properties	Value	Unit	Test Standard
Density	**1140**	kg/m³	ISO 1183
Biobased content	**40**	%	-
Other Standards[S]			
Global warming potential	**-0.42**	kg CO eq./kg	Calculated

S: These properties are reported by the producer according standards that are different to our defaults.

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 95**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤3**	%	-
Melt temperature	**230 - 275**	°C	-
Mold temperature	**50 - 80**	°C	-
Zone 1	**190 - 240**	°C	-
Zone 2	**210 - 250**	°C	-
Zone 3	**220 - 255**	°C	-
Nozzle temperature	**230 - 275**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Delivery form
Black

Features
Thermal Stability

Certifications
Contains renewable resources

Applications
Automotive, Electrical and Electronical, Packaging

Regional Availability
Europe