

Product Texts

Compounded formulation comprising ABS with 20 wt% FibraQ mixed via a Twin-screw extruder. The samples also include 2% coupling agent. No further additives were used, such as impact modifier or flowability aids, though they could be used to further improve some of the properties.

FibraQ is Biofiber Tech's product, consisting of surface-modified wood fibers with enhanced hydrophobicity, low moisture absorption and high flowability within polymer matrices.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	9.72	g/10min	ISO 1133
Temperature	190	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3710	MPa	ISO 527
Stress at break	41	MPa	ISO 527
Strain at break	2	%	ISO 527
Charpy impact strength, +23°C	10.2	kJ/m ²	ISO 179/1eU
Shore D hardness	75	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, A	99.5	°C	ISO 306

Other properties	Value	Unit	Test Standard
Density	1090	kg/m ³	ISO 1183
Biobased content	20	%	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	190 - 210	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Certifications

Contains renewable resources

Regional Availability

Europe