

Product Texts

Compounded formulation comprising polypropylene (impact copolymer) with 30 wt% FibraQ mixed via a Twin-screw extruder. The samples also include 2% coupling agent (conventional MAPP). 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	5.4	g/10min	ISO 1133
Temperature	190	°C	-
Load	5	kg	-
Molding shrinkage, parallel	1.1	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1970	MPa	ISO 527
Stress at break	27.5	MPa	ISO 527
Strain at break	10.8	%	ISO 527
Flexural modulus, 23°C	1800	MPa	ISO 178
Charpy impact strength, +23°C	37.2	kJ/m ²	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	82	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	1030	kg/m ³	ISO 1183
Biobased content	30	%	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	165 - 185	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Features

Copolymer, Impact Copolymer

Certifications

Contains renewable resources

Regional Availability

Europe