

Product Texts

Compounded formulation comprising recycled polyethylene with 51 wt% FibraQ mixed via a Twin-screw extruder. The samples also include 3% coupling agent (conventional MAPE). 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	0.5	g/10min	ISO 1133
Temperature	190	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1730	MPa	ISO 527
Stress at break	22.2	MPa	ISO 527
Strain at break	21.6	%	ISO 527
Charpy impact strength, +23°C	27.6	kJ/m ²	ISO 179/1eU

Other properties	Value	Unit	Test Standard
Density	1120	kg/m ³	ISO 1183
Biobased content	51	%	-

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

Characteristics**Processing**

Injection Molding

Certifications

Contains renewable resources, Recycled Resin Content

Delivery form

Pellets

Regional Availability

Europe