

**Product Texts**

Compounded formulation comprising recycled polyethylene with 20 wt% FibraQ mixed via a Twin-screw extruder. The samples also include 2w% 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
<b>ISO Data</b>			
Melt flow index, MFI	3	g/10min	ISO 1133
Temperature	190	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	1050	MPa	ISO 527
Yield strain	10.1	%	ISO 527
Stress at break	11.8	MPa	ISO 527
Strain at break	51.2	%	ISO 527
Charpy impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	11.4	kJ/m <sup>2</sup>	ISO 179/1eA

Other properties	Value	Unit	Test Standard
Density	990	kg/m <sup>3</sup>	ISO 1183
Biobased content	20	%	-

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

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Certifications**

Contains renewable resources, Recycled Resin Content

**Regional Availability**

Europe