

Product Texts

Compounded formulation containing 20% FibraQ and thermoplastic elastomer mixed via a Twin-screw extruder. The granulate 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	4.26	g/10min	ISO 1133
Temperature	190	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	378	MPa	ISO 527
Tensile Strength	20	MPa	ISO 527
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	19	kJ/m ²	ISO 179/1eA
Strain at break TPE	134	%	ISO 527
Shore A hardness	97	-	ISO 7619-1
Shore D hardness	57	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Melting Temperature	167	°C	ASTM D 3418

Other properties	Value	Unit	Test Standard
Density	1080	kg/m ³	ISO 1183
Biobased content	69.6	%	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	160 - 180	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Certifications

Contains renewable resources

Regional Availability

Europe