

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	5.04	g/10min	ISO 1133
Temperature	190	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	151	MPa	ISO 527
Tensile Strength	8.95	MPa	ISO 527
Charpy impact strength, +23°C	35.1	kJ/m ²	ISO 179/1eU
Strain at break TPE	48.9	%	ISO 527
Shore A hardness	94	-	ISO 7619-1
Shore D hardness	41	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Melting Temperature	87	°C	ASTM D 3418

Other properties	Value	Unit	Test Standard
Density	1010	kg/m ³	ISO 1183
Biobased content	20	%	-

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

Characteristics

Processing

Injection Molding

Certifications

Contains renewable resources

Delivery form

Pellets

Regional Availability

Europe