

Product Texts

Compounded formulation containing 20% FibraQ thermoplastic elastomer mixed via a Twinscrew 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	18.9	g/10min	ISO 1133
Temperature	190	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	68	MPa	ISO 527
Stress at break TPE	11	MPa	ISO 527
Strain at break TPE	147	%	ISO 527
Shore A hardness	89	-	ISO 7619-1
Shore D hardness	37	-	ISO 7619-1

Other properties	Value	Unit	Test Standard
Density	1170	kg/m ³	ISO 1183
Biobased content	60	%	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	185 - 200	°C	-

Characteristics

Processing

Injection Molding

Certifications

Contains renewable resources

Delivery form

Pellets

Regional Availability

Europe