

## TPU FibrQ compound (20% wood fillers)

### Description:

Compounded formulation containing 20% FibrQ 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.



FibrQ is Biofiber Tech's product, consisting of surface-modified wood fibers with enhanced hydrophobicity, low moisture absorption and high flowability within polymer matrices.

### General

Processing Method	Injection molding
Forms	Pellets
Filler	Surface modified wood fiber, 20% filler by weight
Renewable carbon content	20%
Recommended Processing temperature	185-200°C
Code name	TPU01-20

### Typical properties:

Feature	Method	Unit	Values
Tensile strength at Break	ISO 527-2:2012	MPa	17
Elongation at Break	ISO 527-2:2012	%	135
MFI (190°C, 5kg)	ISO 1133-1:2012	(g/10 min)	3.8
Hardness	ISO 7619-1:2010	Shore A	96
Hardness	ISO 7619-1:2010	Shore D	53

*The values were measured on standardized test specimens and can be affected by pigmentation, mould design and processing conditions. Biofiber Tech is therefore not responsible for the accuracy of the provided values and cannot give any warranty with regard to the correctness.*

*Any information, whether verbally or written, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigation. The buyer is solely responsible for confirming the suitability of the product for their specific application.*