

TPE FibrAQ compound (30% wood fibers)

Description:

Compounded formulation containing 30% 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.

General:

Processing Method	Injection molding
Forms	Pellets
Filler	Surface modified wood fiber, 30% filler by weight
Density	Ca. 1.04 g/cm ³
Renewable carbon content	30%
Recommended Processing temperature	160-180°C
Code name	TPE01-30

Typical properties:

Thermoplastic elastomer FibrAQ formulation containing 30% wood fibers.

Feature	Method	Unit	Values
Tensile strength	ISO 527-2:2012	MPa	10.26
Tensile modulus	ISO 527-2:2012	MPa	2074
Elongation at Break	ISO 527-2:2012	%	23.8
MFI (190°C, 5kg)	ISO 1133-1:2012	(g/10 min)	N/A
Impact strength (Charpy unnotched; 23°C)	ISO 179-1:2010	kJ/m ²	N/A

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.

