

Trifilon BioLite® 3004

Art nr: BioLite3004-10605-1

Natural Fibers Reinforced Polypropylene

Product Description

Trifilon BioLite3004 is a natural fibers reinforced biocomposite engineered for injection moulding. This biocomposite is a sustainable replacement for conventional polypropylene compounds.

Status:	Commercially available
Typical Applications:	Consumer Products
Processing Method:	Injection Moulding
Attributes:	Good Impact, Biocomposite, Natural fibers
Colour:	Natural light beige, visible natural fibers
Compliant:	Toy Safe Compliant (EN71-3), REACH, and RoHS

Physical properties	Values	Units	Method
Density	0.97	g/cm ³	ISO 1183
Melt flow index, MFI (230°C/2.16 kg)	10.8	g/10min	ISO 1133
Shrinkage, with flow	1.26	%	ISO 294-4
Shrinkage, across flow	1.28	%	ISO 294-4

Mechanical properties	Values	Units	Method
Tensile Modulus	1010	MPa	ISO 527-2
Tensile Stress at Yield	14.38	MPa	ISO 527-2
Tensile Strain at Yield	1.58	%	ISO 527-2
Tensile Stress at Break	No break	MPa	ISO 527-2
Tensile Strain at Break	No break	%	ISO 527-2
Charpy Impact Strength Notched (20°C)	13.81	kJ/m ²	ISO 179/1eU*
Charpy Impact Strength Unnotched (20°C)	95.08	kJ/m ²	ISO 179/1eU*

Thermal properties	Values	Units	Method
Heat Deflection Temperature A (1,8 MPa)	48	°C	ISO 75-2/A

Note: spiral mould Trifilon internal test shows only 8% lower flowability of material at 205°C/2000 bar compared to standard PP material with MFI of 15 g/10 min (230°C/2.16 kg)

*Modified procedure according to ISO 179/1eU

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