

Trifilon Revo® 1036

Art nr: Revo1036-10507-1

Natural Fibers Reinforced Polypropylene

Product Description

Trifilon Revo1036 is a natural fibers reinforced biocomposite engineered for injection moulding using recycled polypropylene from post-industrial processes. This biocomposite is a sustainable replacement for conventional polypropylene compounds.

Status:	Commercially available
Typical Applications:	Consumer Products
Processing Method:	Injection Molding
Attributes:	Good Impact Resistance, Recycled, Biocomposite, Natural fibers
Colour:	Natural light beige, non-visible natural fibers
Compliant:	REACH and RoHS

Physical properties	Values	Units	Method
Density	1.01	g/cm ³	ISO 1183
Melt flow index, MFI (230°C/2.16 kg)	10	g/10min	ISO 1133
Molding Shrinkage, with flow	1.3	%	ISO 294-4
Molding Shrinkage, across flow	1.5	%	ISO 294-4

Mechanical properties	Values	Units	Method
Tensile Modulus	1520	MPa	ISO 527-2
Tensile Stress at Yield	23.02	MPa	ISO 527-2
Tensile Strain at Yield	12.09	%	ISO 527-2
Tensile Stress at Break	21	MPa	ISO 527-2
Tensile Strain at Break	19	%	ISO 527-2
Charpy Impact Strength Notched (20°C)	9.42	kJ/m ²	ISO 179/1eU*
Charpy Impact Strength Unnotched (20°C)	48.85	kJ/m ²	ISO 179/1eU*
Charpy Impact Strength Unnotched (-20°C)	27.9	kJ/m ²	ISO 179/1eU*

Thermal properties	Values	Units	Method
Heat Deflection Temperature (1.8 MPa)	56	°C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	101	°C	ISO 75-2/B

*Modified procedure according to ISO 179/1eU

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