

TECHNICAL DATA SHEET

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Product Name: Trifilon Revo1041

Trifilon Revo®1041

Art nr: Revo1041-10510-1

Natural Fibers Reinforced Polypropylene

Product Description

Trifilon Revo1041 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, Home appliances, Office Supplies

Processing Method: Injection Moulding

Attributes: Good Stiffness, Strength, Recycled, Biocomposite, Natural fibers

Colour: Natural light beige, visible natural fibers

Compliant: REACH and RoHS

Physical properties	Values	Units	Method
Density Melt flow index, MFI (230°C/2.16 kg) Molding Shrinkage, with flow Molding Shrinkage, across flow	1.02 9 1.4 1.6	g/cm³ g/10min % %	ISO 1183 ISO 1133 ISO 294-4 ISO 294-4
Mechanical properties	Values	Units	Method
Tensile Modulus Tensile Stress at Yield Tensile Strain at Yield Tensile Stress at Break Tensile Strain at Break Charpy Impact Strength Notched (20°C) Charpy Impact Strength Unnotched (20°C) Charpy Impact Strength Unnotched (-20°C)	2720 33.23 4.57 32 5.6 7.42 23.39 15.0	MPa MPa % MPa % kJ/m² kJ/m² kJ/m²	ISO 527-2 ISO 527-2 ISO 527-2 ISO 527-2 ISO 527-2 ISO 179/1eU* ISO 179/1eU*
Thermal properties	Values	Units	Method
Heat Deflection Temperature (1.8 MPa) Heat Deflection Temperature (0.45 MPa)	74 133	°C °C	ISO 75-2/A ISO 75-2/B

Note: spiral mould Trifilon internal test shows only 4% 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)

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^{*}Modified procedure according to ISO 179/1eU