

Trifilon Revo[®] 1041

Art nr: Revo1041-10510-1

Natural Fibres Reinforced Polypropylene

Product Description

Trifilon Revo1041 is a natural fiber 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, Hemp

Physical properties	Values	Units	Method
Density	1,02	g/cm ³	ISO 1183
Melt mass-flow rate, MFR	9	g/10min	ISO 1133
MFI temperature	230	°C	
MFI Load	2,16	kg	
Shrinkage, with flow	1,4	%	ISO 294-4
Shrinkage, across flow	1,5	%	

Mechanical properties	Values	Units	Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress at Yield	32	MPa	
Tensile Strain at Yield	5	%	
Tensile Stress at Break	31	MPa	
Tensile Strain at Break	5	%	
Charpy Impact Strength Notched (20°C)	1,8	kJ/m ²	ISO 179/1eU
Charpy Impact Strength Unnotched (20°C)	26,0	kJ/m ²	
Charpy Impact Strength Unnotched (-20°C)*	15,0	kJ/m ²	

*modified procedure acc. to ISO 179/1eU

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