

Trifilon Switch[®] 2099

Art nr: Switch2099-10565-1**Natural Fiber Reinforced Biobased Polyester**

Product Description

Trifilon Switch2099 is a natural fiber reinforced biobased aliphatic polyester (PLA), designed for injection moulding. This biocomposite have up to 70% biobased content and is a sustainable replacement for variety of conventional plastic applications.

Status:	Commercially available
Typical Applications:	Consumer products
Processing Method:	Injection Molding
Attributes:	High Stiffness and strength
Colour:	Natural light beige, visible natural fibres

Physical properties	Values	Units	Method
Density	1,43	g/cm ³	ISO 1183
Melt flow index, MFI (210°C/2,16 kg)	15	g/10min	ISO 1133
Molding Shrinkage, with flow	0,4	%	ISO294-4
Molding Shrinkage, across flow	0,4	%	

Mechanical properties	Values	Units	Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress at Yield	35	MPa	
Tensile Strain at Yield	2	%	
Tensile Stress at Break	32	MPa	
Tensile Strain at Break	2	%	
Charpy Notched Impact Strength (20°C)	2,6	kJ/m ²	ISO179/1eU
Charpy Unnotched Impact Strength (20°C)	14,7	kJ/m ²	

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