

Trifilon BioLite®4

Hemp Fiber Reinforced Polypropylene

CAS NR. PP: 9003-07-0

Product Description

Trifilon BioLite4 is a hemp fiber reinforced heterophasic copolymer with medium flow properties designed for injection molding. This nucleated polypropylene based biocomposite is designed for high impact properties.

Status:	Commercially available
Applications:	Consumer products, luggage, storage boxes, buckets
Processing Method:	Injection Molding
Attributes:	Good Impact, Biocomposite, High Flow, Hemp
Compliant:	REACH, RoHS, PAH

Physical properties	Values	Units	Method
ISO Data			
Density	0,93	g/cm3	ISO 1133
Melt flow index, MFI	5 - 12	g/10 min	ISO 1133
MFI temperature	230	°C	-
MFI Load	2,16	kg	-
Hardness (Shore D)	64,80		ISO 868
Flammability (UL94)	HB	rating	ISO 1210

Mechanical properties	Values	Units	Method
ISO Data			
Tensile Modulus	1060	MPa	ISO 527-2
Tensile Stress at Yield	16	MPa	
Tensile Strain at Yield	10	%	
Tensile Strain at Break	11	MPa	
Tensile Strain at Break	80	%	
Charpy Impact Strength Notched (20°C)	11,5	kJ/m ²	ISO179/1eU
Charpy Impact Strength Unnotched (20°C)	52,5	kJ/m ²	

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