

Trifilon BioLite® 240

Natural Fiber Reinforced Polypropylene

Product Description

Trifilon BioLite240 is a natural fibers reinforced polypropylene designed for injection molded packaging applications. Trifilon BioLite240 is formulated for easy processing, short cycle times and good part dimensional stability.

Status:	Commercially available
Applications:	Packaging, Consumer Products
Processing Method:	Injection Molding
Attributes:	Good Stiffness & Impact Resistance, Biocomposite, Natural fiber
Colour:	Natural light beige, non-visible natural fibers
Compliant:	Food Migration Compliant (EU10/2011), REACH, and RoHS

Physical properties	Values	Units	Method
Density	1.04	g/cm ³	ISO 1183
Melt flow index, MFI (230°C/2.16 kg)	9	g/10 min	ISO 1133
Molding Shrinkage, with flow	0.7	%	ISO 294-4
Molding Shrinkage, across flow	1.2	%	ISO 294-4

Mechanical properties	Values	Units	Method
Tensile Modulus	1400	MPa	ISO 527-2
Tensile Stress at Yield	28	MPa	ISO 527-2
Tensile Strain at Yield	10	%	ISO 527-2
Tensile Stress at Break	27	MPa	ISO 527-2
Tensile Strain at Break	14	%	ISO 527-2
Charpy Impact Strength Notched (20°C)	3.2	kJ/m ²	ISO179/1eU*
Charpy Impact Strength Unnotched (20°C)	36.6	kJ/m ²	ISO179/1eU*

Note: spiral mould Trifilon internal test shows only 8% 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)

*Modified procedure according to ISO 179/1eU

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