

Technipol® Bio 707

Polyester

Sipol spa Società Italiana Polimeri

Technipol® Bio 707 is a totally biodegradable thermoplastic adhesive with low melting point.

It is used in various industrial fields like footwear industry, for toe-puff and counters production, and textile industry for bonding substrates that are sensitive to the exposure to medium-high temperatures; furthermore it can be used as basic material for compounds used in extrusion and/or moulding of biodegradable products.

Technipol® Bio 707 contains more than 60% of raw materials coming from renewable resources (no food grade).

In the manufacturing process of Technipol® Bio 707 no organo-tin compounds have been used.

Polymer: PolyButylenSebacate.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	35	cm³/10min	ISO 1133
Temperature	160	°C	-
Load	2.16	kg	-
Molding shrinkage, normal	1.6	%	ISO 294-4, 2577
Melt Flow Index, MFI	39	g/10min	ISO 1133
MFI temperature	160	°C	-
MFI load	2.16	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Stress at Break	16	MPa	ISO 527
Strain at Break	370	%	ISO 527
Flexural Modulus (23°C)	288	MPa	ISO 178
Compression Set under constant strain, 23°C	33	%	ISO 815
Compression Set under constant strain, 70°C	46	%	ISO 815
Abrasion resistance	95.6	mm³	ISO 4649
Shore Hardness D (15s)	54	-	ISO 868

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	64	°C	ISO 11357-1/-3
Glass Transition Temperature (10°C/min)	-47	°C	ISO 11357-1/-2
Vicat softening temperature A	58	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1.130	kg/m³	ISO 1183
Biobased carbon content	60	%	-

Characteristics

Processing

Injection Molding, Other Extrusion

Features

Copolymer

Certifications

Contains renewable resources, Biodegradable, Food approval, Food approval 10/2011, Food Contact (FDA)

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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