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 tomedium-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	1130	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)

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- risk class III applications according to EU directive 93/42/EEC
- 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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