

Technipol® Bio 1120

PBS

Sipol spa Società Italiana Polimeri

SIPOL designs and manufactures biodegradable co-polyesters TECHNIPOL® Bio which, in addition to biodegradability, boast the possibility to use raw materials from renewable resources. The specific rheological behaviour makes these products extremely suitable for masterbatches on a biodegradable basis, biodegradable compounds and injection moulding. Furthermore, all TECHNIPOL® Bio products are fully in compliance with American FDA and European EU 10/2011 Food Contact Regulations.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm³/10min	ISO 1133
Temperature	160	°C	-
Load	2.16	kg	-
Molding shrinkage, normal	1.2	%	ISO 294-4, 2577
Melt Flow Index, MFI	14	g/10min	ISO 1133
MFI temperature	160	°C	-
MFI load	2.16	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Stress at Break	50	MPa	ISO 527
Strain at Break	450	%	ISO 527
Flexural Modulus (23 °C)	450	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	63.8	mm³	ISO 4649
Shore Hardness D (15s)	61	-	ISO 868

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10 °C/min)	114	°C	ISO 11357-1/-3
Glass Transition Temperature (10 °C/min)	-32	°C	ISO 11357-1/-2
Vicat softening temperature A	99	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1260	kg/m³	ISO 1183

Characteristics

Processing

Injection Molding

Features

Copolymer

Certifications

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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