SIPOL®

ALBIS

Technipol® Bio 1124

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
Biobased carbon content	40	%	-

Characteristics

Processing

Injection Molding

Features

Copolymer

Certifications

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