

Technipol® Bio 1160

PBAT

Sipol spa Società Italiana Polimeri

Technipol® Bio 1160 is an aromatic - aliphatic copolyester, characterized by medium crystallinity and a low melting point. Due to its formulation, it can be used in biodegradable and compostable compounds. Furthermore it exhibits a good compatibility with other biodegradable polymers as polylactic acid and starch. It can be used as support polymer for master-batches both in granules and in powderform. Usable for injection molding.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	16	cm ³ /10min	ISO 1133
Temperature	160	°C	-
Load	2.16	kg	-
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577
Melt Flow Index, MFI	20	g/10min	ISO 1133
MFI temperature	160	°C	-
MFI load	2.16	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Stress at Break	17	MPa	ISO 527
Strain at Break	365	%	ISO 527
Flexural Modulus (23°C)	60	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	no break	kJ/m ²	ISO 180/1A
Compression Set under constant strain, 23°C	34	%	ISO 815
Compression Set under constant strain, 70°C	48	%	ISO 815
Abrasion resistance	74.5	mm ³	ISO 4649
Shore Hardness D (15s)	34	-	ISO 868

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	115	°C	ISO 11357-1/-3
Glass Transition Temperature (10°C/min)	-35	°C	ISO 11357-1/-2
Vicat softening temperature A	69	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1230	kg/m ³	ISO 1183

Characteristics

Processing

Injection Molding

Features

Blending Resin, Copolymer

Delivery form

Pellets

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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