



BioPBS™ FZ71PM / FZ71PB Technical Data Sheet

Injection molding for general purpose

Product Description

BioPBS™ is bio-based polybutylene succinate (PBS) produced from polymerization of bio-based succinic acid and 1,4-butanediol. Alike LDPE, BioPBS™ is soft and flexible semi-crystalline polyester with excellent properties suitable for injection molding articles for general purpose.

Features:

- Good processability and flow ability, easy ejection of parts from the mold
- Soft and flexible, good impact property
- Good dimensional stability
- Short cycle time
- Superior heat resistance compared to other bioplastics
- FZ71PM is food contact grade, approved by FDA (FCN No.1574) and JHOSPA, comply to EU10/2011
- OK COMPOST certified by Vincotte in European Union and BPI in North America
- Renewable content certified by DIN CERTCO, JBPA and USDA

Properties	Test Method	Unit	FZ71PM/FZ71PB
Density	ISO 1183	g/cm ³	1.26
MFR (190°C, 2.16 kg)	ISO 1133	g/10 min	22
Melting Point	ISO 3146	°C	115
Yield Stress	ISO 527-2	MPa	40
Stress at Break	ISO 527-2	MPa	30
Strain at Break	ISO 527-2	%	170
Flexural Modulus	ISO 178	MPa	630
Flexural Strength	ISO 178	MPa	40
Izod Impact Strength (23°C)	ISO 180	kJ/m ²	7
Heat Deflection Temperature (0.45 MPa)	ISO 75-1	°C	95
Rockwell Hardness	ISO 2039-2	R Scale	107





Process Information

Recommended Processing Parameters	
Nozzle	190°C
Front Cylinder	200°C
Middle Cylinder	190°C
Rear Cylinder	180°C
Hopper	60°C
Mold	25-40°C
Mold shrinkage	1.4%

Supplied form, storage condition and drying condition

BioPBS™ pellet is dried and packed in aluminum-lined packaging before delivering to customers.

Do not store outdoors. Keep dry at ambient temperature. Avoid humid environment, heat and direct sunlight. Use material within 6 months after delivery date, in order to prevent possible material quality deterioration.

Pre-dry of the unopened BioPBS™ is not necessary. It is recommended to keep packages sealed until ready to process and using up the whole 25-kg bag. Unused material should be tightly sealed, kept away from open air, and pre-dried (Temperature 80°C for over 5 hours) to moisture content of less than 1,000 ppm (preferable less than 700 ppm) prior to using next time.

For more information, contact us.

Shenzhen Chuangxin Plastic Technology Co., Ltd.

Tel: +86 18676057437 Email: xl1797110736@163.com

<https://www.cxinplas.com>



**COMPOSTABLE
IN INDUSTRIAL FACILITIES**
Check locally, as these do not exist in many
communities. Not suitable for backyard
composting. CERT # 10628689



Information in this document is based on our current knowledge and experience. It does not relieve customers of the responsibility to carry out their own tests and experiments nor do they imply any legally binding assurance. Customers are responsible to determine their freedom to operate to ensure that their products do not infringe any intellectual properties. PTT MCC Biochem Company Limited assumes no obligation or liability for the information in this document.