

# Ecoflex® S BX 7025

Copolyester  
BASF Corporation

## Product Description

Ecoflex® S BX 7025 is our biodegradable, statistical, aliphatic-aromatic copolyester based on the monomers 1,4-butanediol, adipic acid and terephthalic acid for compounding.

Ecoflex® S BX 7025 on its own has properties similar to PE-LD because of its high molecular weight and its long chain branched molecular structure:

- Transparent to translucent, semi-crystalline structure with DSC melting point in the range of PE-LD
- High ultimate elongation at break and high failure energy (dart drop)
- High, but controllable, water vapour transmission rate (WVTR)
- Good thermostability up to 230C
- No predrying of pellets
- Weldable and printable

Ecoflex® S BX 7025 exhibits an excellent compatibility to raw materials from natural resources, e.g. cellulose, starch or lignin. The processing of Ecoflex® compounds on extrusion lines depends on the formulation, machinery and processing conditions. Therefore trials are always recommended to assess the quality of the final product. In general predrying of Ecoflex® S BX 7025 prior to compounding is not required because raw materials from natural resources contain on average much higher amounts of water than Ecoflex® S BX 7025.

Ecoflex® S BX 7025 fulfils the requirements of the European standard DIN En 13432, the US standard ASTM D 6400 and the Japanese GrenPla standard for compostable and biodegradable polymers, because it can be degraded by micro-organisms. The biodegradation process in soil depends on the specific environment (climate, soil quality, population of micro-organisms). The status of the Ecoflex® compound remains in responsibility of the manufacturer.

Ecoflex® S BX 7025 is one of the few biodegradable plastics which complies in its composition with the European and American food stuff legislation for food contact. Specific limitations and more details are given on request. The converter or packer has to check the suitability of the article for the application. The status of the Ecoflex® compound remains in responsibility of the manufacturer.

## General

Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Biodegradable • Compostable • Excellent Printability	• Food Contact Acceptable • Good Thermal Stability • High Elongation	• High Molecular Weight • Semi Crystalline • Weldable
Uses	• Compounding		
Agency Ratings	• ASTM D 6400 • EN 13432	• EU 2002/72/EC • FDA FCN 372	
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Compounding	• Extrusion	

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.8	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	57.4	cm <sup>3</sup> /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	32		ISO 868
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	80.0	°C	ISO 306/A50
Melting Temperature (DSC)	46.1	°C	ISO 3146

## Additional Information

Density, ISO 1183: 1.25 to 1.27 g/cm<sup>3</sup>  
Melt Mass-Flow Rate (MFR), ISO 1133, 190°C/2.16 kg: 2.7 to 4.9 g/10 min  
Melt Volume-Flow Rate (MVR), ISO 1133, 190°C/2.16 kg" 2.5 to 4.5 cm<sup>3</sup>/10 min  
Melting Point, DSC: 110 to 120°C

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

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