

# Ecoflex® F BX 7011

Thermoplastic  
BASF Corporation

## Product Description

A flexible plastic designed for film extrusion and extrusion coating. Ecoflex® F BX 7011 comes closer than any other biodegradable plastic to the processing properties of LDPE and LLDPE. Blown film extrusion is a particular area where Ecoflex® F shows well-balanced processing properties, and the resin can also be used in extrusion coating applications. Ecoflex F requires no predrying prior to extrusion. Antiblock and Slip additives are recommended and are available from BASF.

## General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Biodegradable		
Uses	• Agricultural Applications • Bags	• Coating Applications • Film	• Laminates • Packaging
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent	• Natural Color	
Forms	• Pellets		
Processing Method	• Blown Film	• Extrusion	• Extrusion Coating

Physical	Nominal Value	Unit	Test Method
Density			
--	1.25 to 1.27	g/cm <sup>3</sup>	ISO 1183
--	1260	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.7 to 4.9	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR)			
190°C/2.16 kg	2.50 to 4.50	cm <sup>3</sup> /10min	ISO 1133
190°C/2.16 kg	3.50	cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>

Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
Break, 50.0 µm, Blown Film	34.0	MPa	
50.0 µm, Blown Film	34.0	MPa	
Tensile Elongation			ISO 527-3
MD: Break, 50.0 µm, Blown Film	560	%	
TD: Break, 50.0 µm, Blown Film	700	%	
Oxygen Permeability (50.0 µm, Blown Film)	1600	cm <sup>3</sup> /m <sup>2</sup> /24 hr	DIN 53380
Water Vapor Transmission <sup>3</sup>	140	g/m <sup>2</sup> /24 hr	DIN 53122

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)			
--	110 to 120	°C	DSC
-- <sup>4</sup>	115	°C	ISO 11357-3 <sup>2</sup>

Optical	Nominal Value	Unit	Test Method
Transmittance (50.0 µm, Blown Film)	82.0	%	ASTM D1003

Additional Information	Nominal Value	Unit	Test Method
Failure Energy			DIN 53373
0.0500 mm, Dyna-Test, Blown Film	240	J/cm	

## Notes

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

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

<sup>3</sup> 50 µm, Blown Film

<sup>4</sup> 10 °C/min

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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