

# Biograde D-F

## Biodegradable Polymers

### Biograde Group of Companies

#### Message:

A Hybrid resin for film applications where Biodegradability is not required.  
For use where use of renewable resources is desired.  
Used for thin and thick gauge film applications.  
BIOGRADE D-F is a based on a blend of thermoplastic starch (TPS) with Polyethylene. This grade of resin is compatibilised to offer a high level of mechanical strength, outstanding elongation properties and toughness. The resin is based on corn starch which is a renewable material.

Applications

- Shopping bags/Check-out bags
- Garbage bags
- Leaf litter bags
- Bin liners
- Overwrap Packaging

General Information			
Features	Biodegradable		
	Good Toughness		
	High Elongation		
	High Strength		
	Renewable Resource Content		
Uses	Bags		
	Blow Molding Applications		
	Film		
	Liners		
	Packaging		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR) (150°C/2.16 kg)	0.96	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D883
Yield	> 10.0	MPa	
Break	> 10.0	MPa	
Tensile Elongation (Break)	> 300	%	ASTM D883
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	90.0 to 130	°C	ASTM D3418
Additional Information	Nominal Value	Unit	

Blown Film Melt Temperature	100 to 160	°C
-----------------------------	------------	----

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

