

ECOPOND[®] Compostable Polyesters

D300 F20

Production Description

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> Totally biodegradable Compostable 	<ul style="list-style-type: none"> Film making Mulching

Typical Properties

Properties ^[1]	Test Method	Test Condition	S.I. Units	Values ^[2]
Granules				
Melt Flow Rate	ISO 1133	190°C, 2.16 kg	g/10min	2.0-6.0
Specific Gravity	ISO 1183	23°C	g/cm ³	1.3-1.5
Melt Point	DSC	-	°C	110-130
Film		Thickness: 15 µm		
Tensile strength (MD/TD)	ISO 527	500 mm/min	MPa	20/10
Elongation at Break (MD/TD)	ISO 527	500 mm/min	%	150/300
Tear Strength (MD/TD)	ISO 6383-2	400 g	mN	800/1500
Dart Drop	ISO 7765-1	25°C	g	130
Ttransmittance	ASTM D 1003	Monolayer	%	88
Haze	ASTM D 1003	Monolayer	%	80
Water vapor trausmission rate	ASTM E 96	40° C, 60RH%	g·m ⁻² ·d ⁻¹	500 [®]

[1] Tested with freshly blowing film, not to be construed as specifications, measured by test specification and used for referential purpose only.

[2] The sample is of 15 µm-thick in the BUR of 3.5 with natural color. The testing results might be different in other specification or in black film.

Quality Control

The melt flow rate, MFR, at 190°C, 2.16 kg, according to ISO 1133 has been defined as specified parameter for quality control. A certificate can be provided with each lot number upon request. In order to obtain a high accuracy for the MFR measurement, the granules should be dried for 5 hours at 80°C. Other data given in our literature are typical values, which are not part of our product specification.

Form Supplied and Storage

Temperatures during transportation and storage should not exceed 70°C at any time. Storage time is not suggested to be over 12 months under proper conditions in an unopened bag, the product should be used as soon as possible when the package is opened.

Trade name	Net weight
D300 F20E	25 kg/package
D300 F20D	800 kg/ package

Processing Conditions

- Well packaged products can be used directly. If the package is damaged before use, the product should be dried prior to processing. Moisture levels above 1000 ppm may affect film-blowing operation;
- Effective drying takes place at 80°C for 5 hours.
- Processing parameters for blowing film:

Temperature zone	Set value ^[1]	Range
Melt Temperature	160°C	150-170°C
Barrel Zone Temperature	Rear	160°C
	Center	165°C
	Front	165°C
Die Head Temperature	160°C	150-170°C
Processing Temperature Limit	180°C	

[1] The data sheet is just for reference. In actual process, the parameter should be adjusted.

Safety Advice

Direct contact with the melting resin should be avoided during processing operations. The processing area should be well ventilated, as during processing the materials might emit fumes containing decomposing substances, which may be irritating. We recommend that clients should investigate the application demand of their products in advance to ensure proper use of this product, and feel free to contact with us for technical support when necessary.

ZHUHAI KINGFA BIOMATERIAL CO., LTD.

Address: NO.177, Ninth Petrochemical Road,
Nanshui town, Zhuhai, Guangdong Province,
P. R. China.

Tel.: +86 (756)- 7633607

Fax: +86 (756)- 7633607



NOTICE: Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE ARE EXPRESSLY EXCLUDED.