



Kafrit Group biopolymers Solutions





The Ecomp series is Kafrit Group's new product line of compostable biopolymer solutions.

Ecomp 120 - for film applications

PRODUCT CODE: DEG 0K12Q BDP BIODEGRADABLE

- Fulfills Standards: EN13432, ASTM D6400-04, ISO 17088
- Ecomp 120 is the bearer of the OK Compost environmental logo for films between 15 – 106 micron

The compound – a result of two years of research - is a combination of PLA and modified polyester with the addition of antioxidants and process additives. The unique combination results in a compound that processes easily on conventional film extrusion equipment with only minor changes to process parameters, namely reduced temperature and controlled screw speed. Films of 15 μ up to 120 μ may be produced and show good weldability, excellent mechanical properties and good printability.

Typical properties of blown films made of Ecomp 120:

MECHANICAL PROPERTIES		UNIT	TEST METHOD				
NOMINAL THICKNESS		Micron		25	35	50	70
TENSILE STRENGTH AT BREAK	MD	N/cm ²	ASTM D 882	39.5	42.9	51.7	45.4
	TD			23.6	25.2	24.4	28.8
ELONGATION AT BREAK	MD	%	ASTM D 882	253	337	404	373
	TD			190	277	240	486
ELMENDORF TEAR STRENGTH	MD	cN	ASTM D 882	9.9	36.2	22.3	92.2
	TD			92	141	208	229
IMPACT		g	ASTM D 1922	370	480	780	860
FRICTION COEFFICIENT		N/cm ²	ASTM D 1894	0.34	0.31	0.4	0.32
PUNCTURE RESISTANCE		N/cm ²	ASTM D 882	2	2	4	5

DEG 0K12Q BDP BIODEGRADABLE fulfils the requirements of European Standard DIN EN 13432, the US Standard ASTM D6400-04 and the Japanese green PLA Standard for compostable and biodegradable polymers. The biodegradation process in soil is influenced by the specific environmental conditions (moisture, temperature, oxygen level, soil quality, population of micro-organisms)



Evolution of the Disintegration of DEG OK12Q BDP



KafritGroup

is an innovative and leading producer of customized Masterbatches and Compounds for the plastic industry. For over 35 years Kafrit and its subsidiaries have been operating globally selling unique products and giving added value to well known consumers around the world.

Kafrit

Kafrit Industries (1993) Ltd

Kibbutz Kfar-Aza, M.P. Negev, 85142, Israel
Tel: +972-8-6809845
Fax: +972-8-6809846
kafrit@kafrit.co.il
www.kafrit.com

CONSTAB

CONSTAB Polyolefin Additives GmbH

D-59602 Rütten Industriestraße Möhnetal 16
Tel: +49 2952819121
Fax: +49 29523140
info@constab.com
www.constab.com

SUZHOU CONSTAB (Partnership)

Suzhou Constab Engineering Plastics Co. LTD

Yingyan Road(E), Tongli Town, Wujiang,
Jiangsu, P.R. China.
Tel: +86-512-63331654 / 63336478
Fax: +86-512-63336987
Postcode: 215217
info@constab.cn
www.constab.cn

SILON (Partnership)

Silon compounds Ltd.

5411-275th Street, Langley
British Columbia, Canada, V4W 3X8
Tel: +604-607-6730
Fax: +604-607-6736
www.silon.ca

Ecomp series is Kafrit group's new product line of solutions for the biopolymer market. It contains tailor-made solutions suited to customer needs with easy processability.

The **Ecomp** series is comprised of:

- **Ecomp 100** – Film applications
- **Ecomp 200** – Injection applications
- **Ecomp 300** – Biobased masterbatches



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