


Material:		Breakdown-PET
Description: 	<p>For a number of reasons, billions of plastic containers find their way to landfill sites every year rather than being recycled for re-use. Breakdown-PET provides end-of- life solution to these discarded containers, enabling them to naturally decompose in a few years rather than centuries.</p> <p>Breakdown-PET is a revolutionary biodegradable* PET (Polyethylene Terephthalate) film for the thermoformed packaging industry. Breakdown-PET is a recyclable AND biodegradable* PET film with all of the conventional properties of PET.</p>	
Quality:	Co-extruded Breakdown-PET	
Antiblock Treatment:	Antiblock by means of masterbatch or silicone coated via bath	
Other Additives:	Sheet can also be coated with Anti Static and Anti Fog	
Application:	The material is suitable for packaging of the following food products	
	Aqueous Foods	Yes
	Acidic Foods	Yes
	Alcoholic Foods	Yes
	Fatty Foods	Yes
	Dry Foods	Yes
	Dairy Foods	Yes
	Use in conventional oven	No
	Use in microwave oven	No
	Freezing	Yes
Legislation:	EU Regulation 10/2011 plastic materials & articles intended to come into contact with food	
	EU Regulation 282/2008 recycled plastic materials & articles intended to come into contact with foods	
	Directive 1935/2004 materials and articles intended to come into contact with food	
	Directive 94/62 Heavy Metal in accordance with 10/2011	
Storage and filling treatment:	Unlimited storage treatment at cooling and freezing temperature	
	Unlimited storage treatment at room temperature	
Colours:	Transparent as standard with colours on request	
Core diameter:	76mm (3") and 152mm (6")	
Roll size diameter:	Max 1000mm, Min 100kgs	
Package method:	Rolls packed on pallets according to agreement	
Dimensions	Gauge	
Breakdown-PET:	Min 180mu - Max 1200mu	
Tolerances:	+/- 5%	
Note:	Tolerance on test equipment +/- 4mu	
Storage conditions / climate	Value	
Temperature:	-10°C to 30°C	
Air Humidity:	45 - 70%	
Properties	Value	Method
Elastic Modulus - Breakdown-PET	1900 - 2400 Mpa	ISO 527
Application temperature	Min -40°C Max 70°C	
Glass transition temperature	76°C - 78°C	DSC
Thermoforming temperature	125°C - 150°C	
Melt point	260°C	
Friction	Max reading 0.25 COF	Lloyds Friction Test Equipment
Material density	1.35g/cm ³	
General Notes:	Biodegradation rates of Breakdown-PET plastic materials are measured according to the ASTM D5511 test method for determining anaerobic biodegradation of plastics under water high solids anaerobic digestion conditions.	