

| 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/cm3 | |
| 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. | |