

THE PLATINUM PACKAGING GROUP

Background

Our products are made from PET film containing a high percentage of post consumer recycled PET resin. The PCR PET film we buy from our supplier is made by converting the post consumer product into monomers through a chemical process known as tertiary chemical glycolysis. The monomers thus produced are used in the PET resin manufacturing process to produce the PCR PET resins.

The EC/282/2008 regulation, explains, that this chemical recycling process is exempt from further tests and procedures that are normally required by the mechanically produced recycled materials.

EC/282/2008 states “Plastic can be treated mechanically to produce recycled materials and articles or it can be broken down to monomers and oligomers by chemical depolymerisation. Monomers and oligomers resulting from chemical depolymerisation process should not be treated differently from monomers manufactured by chemical synthesis. Therefore, they are covered by the authorisation of monomers and additives in Directive 2002/72/EC and they should comply with the specifications and purity criteria established therein. Therefore they should be covered by this legislation.”

This chemical depolymerisation route is the purest route to make PCR PET film, intended for direct contact with food stuffs. Our range of products are made out of these films and are one of the cleanest rPET films in the worlds.

As a final precaution, our rPET content in the film is sandwiched between two layers of virgin PET.

rPet™-CSHS FILMS (General Purpose)		FILM DATASHEET
Composition	A coated polyester film and is 99.9% pure polyester in its composition. Exceptionally strong. The films contain at least 30% PCR PET from a certified clean source.	
Purpose	A general purpose film engineered to achieve strong peelable seals to APET, CPET, PVC, PP, PE, HDPE, OPS, HIPS, PS, ABS, Aluminium, Coated and uncoated paper, unglazed pottery and CPET trays without an APET seal layer. Principally, rPeel-GP is used for seal to PP trays, crystallised PET and aluminium. The film is microwaveable and ovenable. It can also be frozen or chilled.	
Sealing	The film seals at much lower temperatures than comparable films on the market. It will seal at 100° C (212° F). The film will also seal through a certain degree of contamination of sealing flanges but flanges should be kept clean.	
Conversion	It can be supplied printed and can be laminated to other films.	
Liability	The film complies with all European and FDA regulations, including cooking. We take all precautions to ensure that their lidding films are suitable for the application intended, the ultimate responsibility lies with the food packer to ensure that the film is suitable for their purpose.	

PROPERTY	UNIT	METHOD	VALUE & REFERENCE THICKNESS MICRONS					
			30 OPP	12PET	18PET	23PET	28PET	36PET
<i>Grade</i>			30 OPP	12PET	18PET	23PET	28PET	36PET
<i>Thickness</i>	Microns	DIN 53370	34mu	17mu	23mu	28mu	33mu	41mu
<i>Weight per unit area</i>	g/m2		31.8	22.3	30.7	37.7	44.7	55.9
Yield	M2/kg		31.9	45.9	33.1	26.9	22.6	18.1
Water vapour transmission rate	gms/m2 /24 hours 38°C, 90% RH	DIN 53380	6	26	24	17	14	12
Oxygen transmission rate @ 23°C	cm3/m2/day/1 bar	DIN 53380	2000	100	85	70	60	50
Tensile strength at break, MD	daN/mm2	ASTM D 882	20	18	20	20	24	28
Tensile strength at break, TD	daN/mm2	ASTM D 882	22	21	22	22	25	30
Elongation at break, MD	%	DIN 53455	100	135	130	130	120	115
Elongation at break, TD	%	DIN 53455	100	105	100	100	90	95
Shrinkage, MD	%	150°C/30mn	4	1.8	1.7	1.5	1.3	1.1
Shrinkage, TD	%	150°C/30mn	4	0.5	0.5	0.5	0.5	0.5
Heat sealing range	°C		110-180°C	110-210°C	110-210°C	110-210°C	110-210°C	110-210°C
Max temp at sealing tools	°C		180°C	225°C	225°C	225°C	225°C	225°C
Seal strength	N/15mm		6 to 7	6 to 7	6 to 7	6 to 7	6 to 7	6 to 7
Low temp resistance	°C		Up to -20C	Up to -50°C	Up to -50°C	Up to -50°C	Up to -50°C	Up to -50°C
Peelability	Peelable throughout its life. GP films are smooth cold peel films.							
Special properties	Peelable seal To PET, CPET, PVC, PP, PE, OPS, HIPS, PS, ABS, Aluminium, Paper, Unglazed pottery etc. It will also seal to CPET trays without APET seal layer.							
Ovenability	All rPeel GP PET films are microwaveable and ovenable. THE film is microwaveable ovening only to a maximum temperature of 180C.							
Sealing	In general, sealing layers can be provided to seal to any base. Can also be printed.							
Availability of thicknesses	Any thickness can be produced to specification, including laminates & 50,75,100 & more microns. It is possible to laminate to barrier films to achieve high barrier R iPeel™ laminates.							
Disclaimer	All data stated are approximate and to the best of our knowledge. We assume no liability.							

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