

THE
PLATINUM PACKAGING
GROUP

GP 43

Product
Description



GPG 43 is a biaxially oriented polyester (OPET) film with an ethylene vinyl acetate (EVA) heat seal layer. It is used as a heat sealable lidding film in packaging frozen and refrigerated foods. The film is commercially available in nominal 50 and 100 gauges.

GPG 43 is designed to produce strong heat seals to polypropylene (PP). Although designed specially to seal to polypropylene, Mylar® RL43 will produce strong seals to a broad range of container substrates including amorphous polyester (APET, also PETG), semi-crystalline polyester (CPET), polyester coated paperboard, polyvinylchloride (PVC), polyethylene (HDPE), and polystyrene (HIPS).

GPG 43 produces the highest seal strengths to polypropylene. GPG 43 lidding films tend to produce tearing seals to non-polar substrates under chilled conditions. GPG 43 is recommended when light caulking is needed. GPG 43, like other GPG types, has a lower seal initiation temperature than lidding films with an amorphous polyester heat seal layer (SPX AF). This allows good seals to be made at higher line speeds (or using lower sealing temperatures).

GPG 43 can withstand freezing temperatures down to -40°F, and foods can be heated or cooked in contact with this film at temperatures up to 400°F. The oriented polyester base film will begin to distort in the range of 425-450°F.

Special Features

Corona Treatment (GPG 43T): Selected gauges of GPG 43 are available with corona treatment (on the opposite side of film from the heat seal layer) to enhance printing and laminating. GPG43T and is commercially available in nominal 50 and 100 gauges. The film is treated to an initial dyne level of 54. The dyne level of treated lidding films may decline with storage, and in-line corona treatment may be required during subsequent printing or laminating to increase the dyne level to a value adequate to get desired ink or laminate adhesion.

Approvals

FDA Food Contact Status - All gauges of GPG 43 comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers. This regulation describes films which may be safely used in contact with all types of food excluding alcoholic beverages. PPG 43 can be used to contain foods during oven cooking or oven baking at temperatures above 250°F.

Disposal

Our films not present special disposal problems. It can be buried as a relatively inert material in a landfill or burned in an incinerator with normal refuse. The incinerator should have sufficient draft to exhaust all combustion products through the stack to avoid exposure to irritating fumes. The disposal method should comply with local, state and federal regulations.

Typical Properties

Available Thickness [Gauge]

50; 100

Property	Thickness	Value	Units	Test
BARRIER				

Gas Permeability - O ₂ , 24 hr	100	5	cc/100 in ²	ASTM D3985 22°C/50% RH/1 ATM
Gas Permeability - O ₂ , 24 hr	50	9	cc/100 in ²	ASTM D3985 22°C/50% RH/1 ATM
WVTR	100	1.3	g/100 in ² /day	ASTM F1249 38°C, 90% RH
WVTR	50	2.8	g/100 in ² /day	ASTM F1249 38°C, 90% RH
PHYSICAL				
Elongation at Break MD	50 - 100	110	%	ASTM D882A
Elongation at Break TD	50 - 100	80	%	ASTM D882A
Modulus	50 - 100	550	kpsi	ASTM D822
Tear (Graves)	100	1.1	lb	ASTM D1004
Tear (Graves)	50	0.7	lb	ASTM D1004
Tensile Strength MD (break)	50 - 100	25	kpsi	ASTM D882A
Tensile Strength TD (break)	50 - 100	35	kpsi	ASTM D882A
Unit Weight	100	26.4	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	50	16.9	lb/ream	ASTM E252 (0.5 m ²)
Yield (nominal)	100	16,400	in ² /lb	
Yield (nominal)	50	25,500	in ² /lb	

Standard Put-ups

Core I.D. (Inches)	Roll O.D. (Inches)	Thickness (Gauge)	Length (Feet)
3	9 1/2 ± 1/4	50	5,700
3	9 1/2 ± 1/4	100	3,800
3	13 ± 1/4	50	11,400
3	13 ± 1/4	100	7,600
6	11 ± 1/4	50	5,700
6	11 ± 1/4	100	3,800
6	14 ± 1/4	50	11,100
6	14 ± 1/4	100	7,500
6	18 ± 1/4	50	20,500

6	18 ± 1/4	100	13,700
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Disclaimer

Note: These values are typical performance data for Platseal ' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DPPG makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

