

# BOPET FILMS

## PETLAR™

SRF's exciting gamut of Bi-axially Oriented Polyethylene Terephthalate (BOPET, Polyester) films



### Printing+

A wide range of transparent BOPET films for different printing systems and processing conditions

### Performance+

Functionally enhanced films for extra edge performance

### Protection+

A complete solutions portfolio of barrier films

### Premium+

Aesthetically enhanced films to enable differentiated and visually stunning shelf impact

### Industrial+

Special films for industrial grade applications



**SALES ENQUIRIES**  
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All PETLAR grade products conform to EC 10/2011 directives, REACH specifications and US FDA regulations for food contact applications.

A wide range of transparent BOPET films for different printing systems and processing conditions

**PETLAR  
Printing+**

### FEATURES

Good thermal and mechanical properties  
High clarity and excellent gloss  
Excellent printability  
Suitable for lamination with different substrates  
Compliant with food grade applications

PRODUCT TYPE	PRODUCT CODE	VARIANTS/SUB-CODE	SURFACE ENERGY*	APPLICATIONS
Untreated, Plain BOPET Film	PT	PL	44	Printing web in laminates
Corona Treated BOPET Film	PR	IR, OR	56+	
Acrylic Coated BOPET Film	PA/PAA	IA, OA, IA/OR, IR/OA, OAA/IR, IAA/OR	42+	High performance structures
Chemical Coated BOPET Film	PC	IC, OC, IC/OR, IR/OC	56+	
Special Chemical Coated BOPET Film	PS	IS, OS, IS/OR, IR/OS	48+	Barrier packaging structures
Special Coated BOPET Film	PQ	IQ, OQ, IQ/OR, IR/OQ	48+	
Post Consumer Recyclate BOPET Film	PCR	PT, PR, PA, PC, PS	42-56+	Lacquering/Performance coatings
High Bond Chemical Coated BOPET Film	PV	IV, OV, IV/OR, IR/OV	42	
Both Side Coated BOPET Film	PB	IA/OA, IC/OC, IC/OA		Base film for metallisation

PL-Plain, R-Corona, I-Inside, O-Outside, Followed by code of coating type | \*(dyne/cm) - treated side | Available Thickness (Microns) : 08,09,10,11,12,15,19,23,36,50

COMPATIBILITY GUIDELINES	PT	PR	PA	PC	PS	
<b>Ink Systems:</b>	Nitrocellulose	P	F	E	G	E
	Vinyl	G	G	E	E	E
	Poly-urethane	G	G	E	E	E
	Polyester	G	E	E	E	E
	Water Based	P	F	E	E	E
	UV Curable	P	P	E	P	P
<b>Lamination Adhesives:</b>	Solvent Based	F	G	E	E	E
	Solvent-less	F	G	E	E	E
	Water Based	P	F	E	E	E
<b>Coatings &amp; Primers:</b>	Coatings	P	F	G	E	E
	Solvent Based Primer	G	G	G	E	E
	Water Based Primer	G	G	G	E	E

Notations : E: Excellent G: Good F: Fair P: Poor



**PETLAR  
Performance+**

**FEATURES**

Evolved engineering for customised and precise performance  
Offers smooth runnability in converting processes



PRODUCT TYPE	PRODUCT CODE*		THICKNESS (MICRONS)	KEY FEATURE	APPLICATIONS
	T	M			
Heat Sealable BOPET Film	HS	HSM	12, 15, 20 30	Transparent film with one side heat sealable (co-extruded layer with special polymer)	Lidding monolayer packaging and over wrap. FRP/GRP applications
Heat Sealable Peelable BOPET Film	HSP		12, 15, 20 30	Transparent film with one side heat sealable (co-extruded layer with special polymer) with Peelable Properties	Lidding monolayer packaging and over wrap
Heat Sealable Peelable Anti-Fog BOPET Film	HSPA		12, 15, 20 30	Transparent film with one side heat sealable (co-extruded layer with special polymer) with Peelable & Anti-Fog Properties	Lidding monolayer packaging and over wrap
Universal Heat Sealable and Easy Peelable	HSPU		21, 25, 38	Transparent film with one side sealable property, which seals with containers made with different materials like APET, Al Foil, PP, PE, PS to offer easy peelable solution	Useful as lidding film for different end use applications like meat, cheese, pasta, fruits, fresh veggies etc. Usable as dual oven able. The whole package (lidding and tray) is recyclable when used with APET containers
High Heat Seal Strength BOPET Film	HHS	HHSM	20, 30	Transparent film with one side heat sealable (co-extruded layer with special polymer)	Lidding applications and monolayer packaging
Twist Grade BOPET Film	PTW	PTWM	15, 18, 23	Excellent twist retention and superior dead-fold performance	Hard boiled candies and lozenges, twisted gift wraps
OPAQUE White Twist Grade BOPET Film	OPTW		15, 18, 23	Excellent twist retention and superior dead-fold performance Opaque white twist	Hard boiled candies and lozenges, twisted gift wraps
Isotropic BOPET Film	PI	PIM	12, 23, 36	Excellent isotropic performance with good barrier property, Excellent mechanical properties with flex crack resistance	Suitable as lidding layer in various packaging structure
Direct Embossable BOPET Film	EB		13, 15, 20, 23, 30	Suitable for high speed and high resolution embossing	Decorative packaging, hologram, brand security and anti-counterfeiting applications
Stamping Grade BOPET Film	ST		12, 19	Excellent dimensional & thermal stability	Hot & cold stamping foil applications
High Friction BOPET Film	PF		12	Offers blocking in functional layer to prevent slippage for bulk and big bags	Pet (Dog, Cat) food and bulk packages requiring to have low slippage during stacking
Release Coated Film Release Coated Met Film	RCF RCFM		12	Excellent and smooth release	Suitable for transfer applications. Useful in achieving plastic free cartons with and without metallic effect

\* T: Transparent | M: Metallised

**PETLAR  
Protection+**

**METALLISED BARRIER**

PRODUCT TYPE	PLAIN	CORONA	CHEMICAL COATED	SPECIAL CHEMICAL COATED	HIGH BOND CHEMICAL COATED
Product Code	PM	PRM	PCM	PSM	PVM
Barrier*	OTR   WVTR	OTR   WVTR	OTR   WVTR	OTR   WVTR	OTR   WVTR
<b>Normal Barrier</b> 2.2 Optical Density	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0
<b>Medium Barrier</b> 2.5 Optical Density		<1.0 <0.7	<1.0 <0.7	<1.0 <0.7	<1.0 <0.7
<b>High Barrier</b> 2.8 Optical Density		<0.8 <0.4	<0.8 <0.4	<0.6 <0.4	<0.6 <0.4
<b>Super High Barrier</b> 3.0 Optical Density		<0.6 <0.3	<0.6 <0.3	<0.5 <0.3	<0.5 <0.3
<b>Ultra High Barrier</b> 4.0 Optical Density				0.2 0.2	
<b>Metal Adhesion</b>	Normal   200-240 gm/25mm		High   650 gm/25mm	Super High   850-1000 gm/25mm	

**TRANSPARENT BARRIER**

PRODUCT TYPE	PRODUCT CODE	THICKNESS	OTR	WVTR	KEY FEATURE	APPLICATIONS
PVDC Coated BOPET Film	PX PX - Pasteurisable	12, 14	7.0	7.0	Good moisture, oxygen and other gases barrier. Excellent adhesion to inks and moderate heat sealability to itself and other PET substrates	Transparent barrier layer for flexible pouches. Dry fruits, mayonnaise, ketch-up, raw and processed meat, cheese products
Transparent High Barrier BOPET Film	THB	12	<1		Excellent transparency and high barrier even at elevated relative humidity. Facilitates optical inspection of packed products high flex-crack resistance	Transparent barrier layer for flexible pouches. Meat, cheese, dry nuts, flavoured processed foods/powder products etc. Replacement for PVDC, EVOH, AlOx and SiOx films
Aluminium Oxide BOPET Film	AlOx AlOx - Retort	12	0.7	0.7	Excellent barrier for oxygen and water vapour along with see through properties. The AlOx coated surface is protected by a topcoat layer to prevent any barrier loss due to flexing	Transparent barrier layer for flexible pouches. Meat, cheese, dry nuts, flavoured processed foods/powder products etc. Replacement for PVDC, EVOH and SiOx films

\*OTR - Oxygen Transmission Rate [cc/m<sup>2</sup>/day] | WVTR - Water Vapour (Moisture) Transmission Rate [gm/m<sup>2</sup>/day]

Aesthetically enhanced films to enable differentiated and visually stunning shelf impact

## PETLAR Premium+

### FEATURES

Aesthetically enhanced surfaces

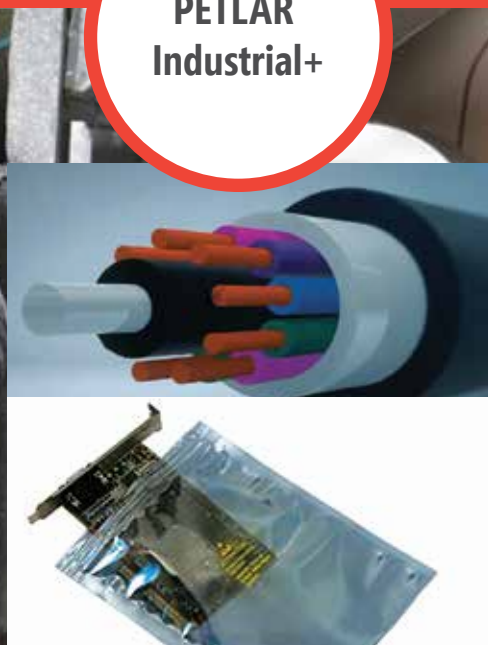
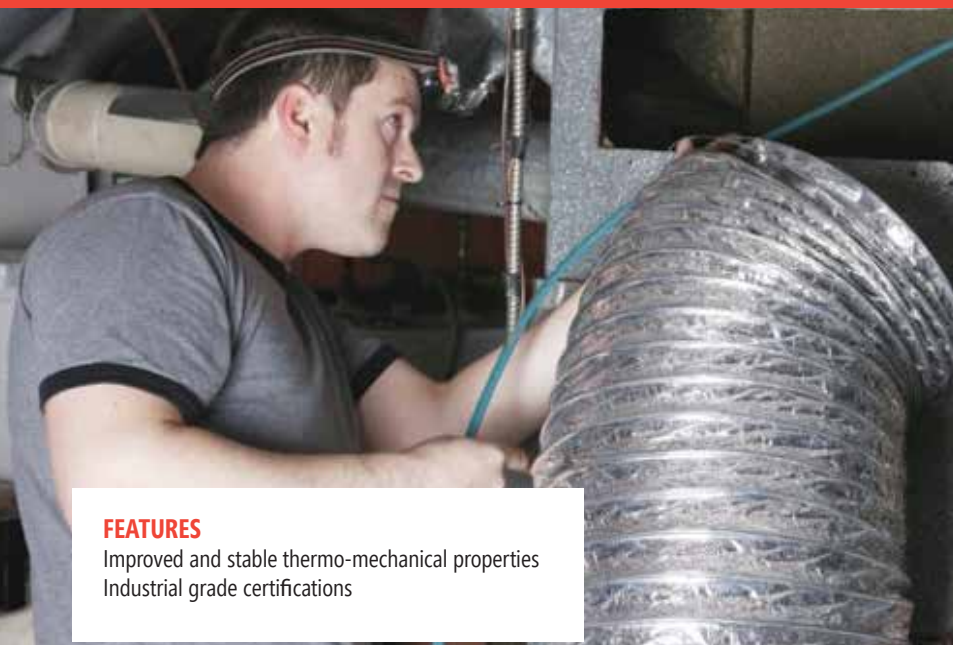
Uniform material distribution in functional layers for balanced appearance

Excellent mechanical and thermal properties

Superior performance for Roll-2-Roll processing

PRODUCT TYPE	PRODUCT CODE T   M		THICKNESS (MICRONS)	KEY FEATURE	APPLICATIONS
Amber/Gold Coloured BOPET Films	YG	YGM	12, 15, 19, 23	Golden shade in-built in the polymer matrix	Carton packaging – as liner as well as outer layer (high aesthetics). Decorative end use applications
Matte Surface BOPET Film	PH	PHM	12, 15, 19, 23, 36	Medium haze, medium gloss, muted and grainy surface. Metallised film carries excellent silver finish appeal	Label face stocks, stamping, paper board and carton lamination. Aluminium foil like appearance in laminates and cartons. As carrier layer in FRP/GRP segment
Special Matte Surface BOPET Film	PHK		12, 15, 19, 23, 36	Medium haze, medium gloss, muted and grainy surface. Metallised film carries Excellent silver finish appeal	Flexible packaging to achieve matte finish appearance with superior print quality. Metallised version offers silver aesthetic appearance
Ultra High Clear Transparent & High Gloss Metallised BOPET Film	PUH	PUHM	12, 19, 23, 30, 36	Excellent clarity and low haze. Mirror finish with ultra-shine metallised film	Security holograms, ultra shine decorative applications and window packaging
Opaque White BOPET Film	OW	OWM	18, 23, 36, 50, 75	High opacity and good optical properties	Self-adhesive label face stock, lidding
Carton Lamination BOPET Film		PAM PAAM	08, 09, 10, 12	Excellent flatness and reel profile for flawless lamination. Chemical coated surface for superior surface print and lacquer adhesion	Carton packaging – as liner as well as outer layer (high aesthetics). Decorative end use applications
Holographic BOPET Film	HD	HDM	12	Available in various standard and customised designs in Transparent and Metallised versions. Shimline impression free versions available	Ideal substrate for brand differentiation, protection and preventing duplication
Velvet Touch BOPET Film	VT		13, 24, 37, 51	Velvet like soft feel with matte effect on one side	Luxurious finish of product. Offers great scuff and scratch resistance property





**FEATURES**

Improved and stable thermo-mechanical properties  
Industrial grade certifications

PRODUCT TYPE	PRODUCT CODE T   M	THICKNESS (MICRONS)	KEY FEATURE	APPLICATIONS
Cable Grade BOPET Film	CH	12, 23, 26, 36, 50, 75, 88, 100	High dielectric constant, BDV and thermo-mechanical stability	Electric cables wrapping, Insulation in electric motors and transformers. Suitable for release application in piping industry
Duct Grade BOPET Film	PR PRM	12	UL Certified transparent and metallised BOPET films	Flexible air ducts & air connectors
Low Optical Density Metallised BOPET Film	POM	12	Precision low level metallisation for consistent surface resistivity	Electronic shield packaging, popcorn packaging
Anti-static Coated BOPET Film	PAT	12, 23	Static dissipative coating for high speed processing	High speed packing where low COF is required
Yarn Grade BOPET Film	YT	12, 19, 23, 36	High tensile strength and stable thermo-mechanical properties in thermal exposures	Metallising, Lacquer Coating, Synthetic (Metallic) Yarn e.g. embroidery, sequins, glitter etc.
Milky White BOPET Film	EW	12	High opacity & whiteness index, low transparency, excellent flatness and thermal stability at elevated temperatures	As insulation material in electric motors, other industrial and packaging applications
Thermal Lamination Base BOPET Film	LT	12	Balance shrinkage in machine and transverse directions, excellent clarity & dimensional stability	Suitable as base film for thermal lamination, extrusion coating applications
Siliconisable BOPET Film	SLA	12	Controlled shrinkage and optimum roughness	Base film for silicone coating and other transfer release applications
Optically Clear BOPET Film	OC	12, 15, 19, 23, 36, 50, 75, 100	Characterised by high transparency and good slip property	Reprographics, Labels & Photosensitive Coatings

**DISCLAIMER**

The information contained herein is to be used only as a guideline for using PETLAR film. The specifications and characteristics mentioned are based on reliable test procedures. Users of this film should make independent assessment of their own for its suitability to their end use. SRF Ltd does not offer any guarantee on the results and does not accept any liability arising out of the use of the information contained herein.