PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 32mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	12micron polyester
Adhesive	20micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/EVA; 38%/62%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 100℃-105℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 38mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	12micron polyester
Adhesive	26micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/EVA; 32%/68%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 105℃-110℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 42mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	12micron polyester
Adhesive	30micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/EVA; 29%/71%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 110℃-115℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 75mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	38micron polyester
Adhesive	15micron PE Polyethylene +22 micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/PE/EVA; 51%/20%/29%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 115℃-120℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 80mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	52micron polyester
Adhesive	10micron PE Polyethylene +18 micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/PE/EVA; 65%/13%/22%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 120℃-125℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 100mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	52micron polyester
Adhesive	18micron PE Polyethylene +30 micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/PE/EVA; 52%/18%/30%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 125℃-130℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 125mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	75micron polyester
Adhesive	20micron PE Polyethylene +30 micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/PE/EVA; 60%/16%/24%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 135℃-140℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 150mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	100micron polyester
Adhesive	20micron PE Polyethylene +30 micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/PE/EVA; 67%/13%/20%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 140℃-145℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 175mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	100micron polyester
Adhesive	35micron PE Polyethylene +40 micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/PE/EVA; 57%/20%/23%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 145℃-150℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 200mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	125micron polyester
Adhesive	35micron PE Polyethylene +40 micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/PE/EVA; 63%/17%/20%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 150℃-155℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe

PRODUCT DATA SHEET

Product Name: Laminating film **Product Code:** 250mic gloss

Description:

Gloss Polyester Polyethylene/Copolymer film, for use in encapsulation of printed materials as print finishing process. Adhesion is achieved by the reactivation of the heat sensitive resins in the Polyethylene/copolymer element.

Construction:

Base film	150micron polyester
Adhesive	50micron PE Polyethylene +50 micron EVA copolymer
Overall Tolerance:	+/-5%

Physical Characteristics:

Surface Dyne level: Good

Acid resistance: Good (mild acid only)

Alkali resistance: Good

Heat resistance range:80°C

Oil resistance: Good

Light stability: Very good protection, estimated life expectancy 25 years at 500 lux.

Yellowing:	None
Adhesion:	≥20N
Shrinkage value:	longitude direction: 1% at150°C for 30 min
	transverse direction: 0.5% at 150°C for 30 min

Specific gravity range: PET/PE/EVA; 60%/20%/20%

Solubility in water: Insoluble

Appearance: Plastic film with a milky appearance

Applications: Indoor under extreme conditions. Out door under mild conditions.

Operating Temperature: 155℃-160℃ at speed of 650mm/min

REACTIVITY HAZARD DATA

Chemical stability: Stable.

Incompatibility: Avoid contacts with strong acids and bases. May react violently with fluorine.

Hazardous Decomposition Products: At temperatures above 300°C, decomposition products include carbon monoxide, carbon dioxide, acetaldehyde and acrolein.

HEALTH HAZARD DATA

Effects of exposure

Ingestation: Non-Toxic.

Skin contact: Non-Irritating.

Inhalation: Upon over-heating may product fumes. Remove personnel to fresh air and lower heat store commended levels.

CONTROLS AND PROTECTIVE MEASURES

Protective clothing: None required under normal conditions of use.
Gloves may be used when handling extremely hot film.

PRECAUTIONS FOR SAFE HANDLING AND USE

No special hazards anticipated under normal conditions encountered in storage, processing and disposal.

Waste disposal methods: Recycling, incineration or landfill.

	NFPA	HMIS
Health	0	0
Flammability	1	1
Reactivity	0	0

Key: 0=Minimal 1=Slight 2=Moderates 3=Serious 4= Severe