مصنع الجعيب للبلاستيك
Al Joaib Plastic Factory

Technical Data Sheet

PE Foam Wrapping

1. Product Description

This product is a flexible foam wrapping film manufactured from **Low-Density Polyethylene (LDPE)**. It is designed to provide lightweight surface protection during handling, storage, and transportation. The material offers low weight, flexibility, ease of cutting and wrapping, and suitable resistance to moisture and surface abrasion.

2. Intended Applications

The film is intended for wrapping and protecting surfaces and products against scratches, dust, and light abrasion, including furniture, glass, household appliances, coated metal parts, plastic products, and industrial goods during storage and transportation.

3. Composition

Item	Proposed Description
Base polymer	Low-Density Polyethylene (LDPE)
Structure	Closed-cell or semi-closed-cell foam; single-layer or multilayer depending on design
Color	Natural/white or as specified by the customer

4. Functional Properties

The foam structure provides separation between the wrapped surface and the external environment, reduces direct contact abrasion, and improves conformability around irregular shapes. The film should not be considered a substitute for high-impact cushioning materials, such as thick polyethylene foam or engineered protective cushioning, where severe shock protection is required.

5. Technical Specifications

Property	Unit	Proposed Nominal Value	Proposed Acceptance Limit
Thickness	mm	1.0 or As specified	±10%
Width	m	1.0 or As specified	±2%
Roll length	m	As specified	±2%
Apparent density	kg/m³	35–60 or As specified	±10%
Tensile strength – (MD)	MPa	≥ 8	Indicative value
Tensile strength – (TD)	MPa	≥ 6	Indicative value
Elongation at break – MD	%	≥ 150	Indicative value
Elongation at break – TD	%	≥ 200	Indicative value
Water absorption	%	≤ 0.5	Indicative maximum

6. Dimensions and Packaging

Item	Specification
Available thicknesses	0.5–5.0 mm or as specified
Roll widths	1.0–2.0 m or as specified
Winding format	Single roll or slit rolls according to customer requirements
Outer packaging	Polyethylene bag with identification label

Rolls should be stored on a clean, level surface and protected from direct sunlight, heat sources, solvents, and chemicals. Moderate storage temperatures and normal humidity are recommended. Avoid pressure or stacking conditions that may cause permanent deformation.

7. Safety and Compatibility

The product is combustible, as are most plastic materials, and must be kept away from open flames, sparks, and heat sources. Compatibility with inks, adhesives, cleaners, and coated surfaces should be confirmed before commercial use because performance may depend on the substrate, temperature, pressure, and contact time.

8. Disclaimer

This document is prepared for preliminary technical identification. Actual properties may vary with thickness, density, additive level, cellular structure, manufacturing conditions, and end-use conditions. The user is responsible for verifying suitability for the intended application and conducting qualification tests before commercial production or shipment.