

Technical Datasheets

Polyethylene Sheets and Rolls

Polyethylene (PE) is a highly versatile thermoplastic material available in sheets and rolls, widely used across industrial, technical, and commercial applications.

Key Features:

- High chemical resistance: inert to many acids, bases, salts, and organic solvents
- Excellent resistance to moisture and water
- Low density: lightweight and easy to handle
- Good dielectric properties (electrical insulation)
- High impact resistance, even at low temperatures
- Smooth, non-stick surface that resists dirt buildup
- Food-grade versions available for direct contact with food

Available Formats:

- Sheets: ideal for cutting, milling, thermoforming, and cladding
- Rolls: better suited for continuous coverings, die-cutting, packaging, temporary protection, or wide-surface applications

Variants:

- Thicknesses: available in a wide range, from fractions of a millimeter up to several centimeters
- Colors: natural white, black, transparent, and custom colors on request (blue, red, yellow, green, etc.)
- Adhesive finishes: also available with adhesive backing for fast, fixed or temporary applications on flat or curved surfaces
- Special versions: UV-resistant, antistatic, flame-retardant, food-grade, recycled or virgin material

Common Uses and Applications:

- Anti-wear and non-stick coatings for industrial surfaces
- Protection of worktops, walls, and machinery
- Cutting and die-cutting for gaskets and spacers
- Protective packaging or technical inserts for crates and containers
- Applications in the food, pharmaceutical, chemical, and logistics industries
- Temporary coverings for construction sites, painting, or transport

Polyethylene is a cost-effective, durable, and easy-to-process solution, making it one of the most widely used plastic materials in industrial and technical sectors.