# SHEET

## PS

Polystyrene is a thermoplastic styrene resin obtained by polymerization of styrene in the crystal version (GPPS). It is identified as "HIPS" (High Impact PolyStirene) when it comes with butadiene rubber added.

Because of its excellent processability, it can be produced with different characteristics, thanks to the possibility of formulating it by differentiating the percentages of GPPS and HIPS.

Polystyrene finds application in a wide range of fields: from electrical appliances (fridge interiors) to display units, toys, showers and bathroom fixtures, technical products for the industry and for internal logistics support in the manufacturing and automotive industries.

It is also fully reusable (both post-production an post-consumption recycling) and conforms to the main waste disposal regulations.

The MP3 trade name for PS sheet is MP STIR SHEET.

### MP STIR SHEET

Having perfected this material, MP3 can offer the market a product with the best characteristics:

- excellent thermoformability
- excellent workability with standard tools
- high impact strength
- possibility of screen-printing and gluing

MP STIR sheet can hence be used in a wide range of sectors, such as car and caravan accessories, luminous signs, display units, toys, cells and counterdoors for fridges, home and office furniture, technical articles.

The material is available in various finishes:
R/L - glossy/matt
R/R - matt/matt

Various alternatives are available, based on the needs of the destination market, for example, the household refrigeration sector where the R/R7 solution (matt/glossy/shockproof) has been widely used for years.

Various aesthetic options are also available:

- Embossing (three different solutions)
- Lamination with decorative PS film, which allows satin steel, aluminium, imitation wood finishes, etc.

## Colours

A vast choice of colours in the standard range or alternatively various sample-based imitations.

MP3's engineering department is highly specialised in colour identification and imitation.

## Special treatments

The following treatments can be performed:

- **Antistatic**: to eliminate electrostatic on the product in particular to prevent adherence of dust
- **Corona**: to increase the surface porosity for improved adherence of foams and paints
- **UV**: to improve resistance to ultraviolet rays and atmospheric agents. The typical product obtained from this treatment is MP STIR WR, a shockproof polystyrene for outdoor applications.

Some special product lines form part of the range offered, in particular:

### MP FR 85

Especially suitable for thermoforming of fridge cells and counterdoors, also in the presence of hydrocarbons used in the formulation of insulating polyurethane foams.