



GPPS P151

Description

General Purpose Polystyrene (GPPS) is a transparent, rigid, and cost-effective thermoplastic polymer known for its excellent clarity and ease of processing through methods like injection molding and extrusion. It is a brittle material used for applications requiring transparency, such as disposable cups, packaging trays, CD cases, and medical labware.

Application

- **Plexiglass (Extruded Sheets):** GPPS is extruded into clear, rigid sheets that serve as a glass substitute. These sheets are used for shower enclosures, indoor glazing, point-of-sale displays, and diffusers for lighting fixtures.
- **Insulation Boards:** GPPS is the base resin for producing extruded polystyrene (XPS) foam insulation. The molten polymer is processed with a blowing agent to create the rigid, closed-cell foam structure used for building insulation.
- **Medical Labware:** The excellent clarity and sterility of GPPS make it suitable for disposable laboratory items like Petri dishes, test tubes, and diagnostic trays.

GRADE	P-151	P-32	P-540	P-52
MFR	10	10	11	9
VICAT SOFTENING POINT	98	95	91	92
TENSILE STRENGTH AT BREAK	45	42	42	43
ELONGATION AT BREAK	2.5	2.5	2	2.2