

# Technical Datasheet

GPPS1160

## 1) Product Description:

GPPS1160 is a high resistance and molecular weight crystal polystyrene for extrusion and bi oriented polystyrene (OPS) industry. It is particularly useful in the production of thick sheet by direct inject gassing, where it gives expanded sheets with high mechanical properties. GPPS1160 can also be used in dilution with GPPS7240 for extrusion of sheet for thermoforming. This grade has food contact approval.

## 2) Applications:

- ✓ Shower cabinets, Lighting thin films, Insulation board, Foam sheet of fruits trays, Meat trays and egg boxes

## 3) Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Melt Flow Rate (200 °C, 5kg)	ASTM D-1238	g/10min	2.5
Styrene Residual Monomer	CLG LABPSG004 (ATOFINA TEST METHOD)	PPM	<500
Vicat softening point (50 °C/hr 1kg)	ASTM D-1525	°C	105
Rockwell Hardness	ASTM D-785		SCALE/L 70
Tensile Strength at Break	ASTM D-638	MPA	48
Elongation at Break	ASTM D-638	%	3
Tensile Modulus	ASTM D-638	MPA	3200

\*All above mentioned data are typical values and not to be construed as real specifications. Density and shrinkage of this grade are approximately around 1.04 kg/lit & (0.4-0.7%)(ASTM D-955) respectively. All test are carried out at 23°C, unless otherwise stated. If in grade reference the fourth digit is "1"(1161), indicates an external lubricants is included. If the injection molding products quality is affected by moisture, granules of GPPS could be dried at 70°C for 2-4 hours.

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