



## GPPS 1160

### GENERAL PURPOSE POLYSTYRENE

#### Product Description

GPPS1160 is a high heat resistance, high molecular weight crystalline polystyrene used in the extrusion industry. It is most suitable for production of oriented polystyrene (OPS). It is particularly useful for production of thick sheet by direct gassing, where it gives expanded sheets with high mechanical properties.

GPPS1160 can be used in combination with HIPS7240 for the extrusion of sheet for hot-fill thermoforming application.

#### Applications

- Extrusion: Shower cabinets; Lighting thin films; Diluted with high impact polystyrene for thermoforming, it shows resistance against high temperatures. In line extrusion thermoforming of transparent cups.
- Direct gassing: Insulation board; Foamed sheet for thermoforming of fruit trays, meat trays, egg boxes.

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
<b>MFI (200°C/5KG )</b>	g/10 min	2.5	ASTM D 1238
<b>STYRENE RESIDUAL MONOMER</b>	PPM	<500	CLGLABPSG004 (ATOFINA TEST METHOD)
<b>VICAT SOFTENING POINT</b>	°C	Min101	ASTM D 1525
<b>R<sup>o</sup>CKWELL HARDNESS</b>	-	Scale L70	ASTM D 785
<b>TENSILE STRENGTH @ YEILD</b>	MPa	-	ASTM D 638
<b>TENSILE STRENGTH @ BREAK</b>	MPa	48	ASTM D 638
<b>ELONGATION @ BREAK</b>	%	3	ASTM D 638
<b>FLEXURAL MODULUS</b>	MPa	2900	ASTM D 790
<b>TENSILE MODULUS</b>	-	3200	ASTM D 638
<b>REFRACTIVE INDEX</b>	-	1.591	ISO Method
<b>WATER ABSORPTION</b>	%	<0.1	ASTM D 570

Density of this grade is approximately: 1.04 gr/cm<sup>3</sup>. Shrinkage of this grade in mould is approximately: (0.4-0.7%) (ASTM D 955) All tests are carried out at 23 O C unless otherwise stated. The above data are typical laboratory average. They are intended to serve as guides only.

Producer: Tabriz Petrochemical Co.

Licensor: Total

Packing: 25 Kg plastic bag

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