

Product Data Sheet

GPPS 1160

General purpose polystyrene

Product Description

GPPS1160 is a high heat 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 HIPS7240 for extrusion of sheet for thermoforming.

Applications:

shower cabinets, lighting thin films, insulation board, foam sheet of fruits trays, meat trays, egg boxes.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C-5KG)	g/10min	ASTM D-1238	2.5
STYRENE RESIDUAL MONOMER	PPM	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT (50 °C/hr. 1kg)	°C	ASTM D-1525	105
ROCKWELL HARDNESS	-	ASTM D-785	SCALE/L70
TENSILE STRESS AT BREAK	MPA	ASTM D-638	48
ELONGATION AT BREAK	%	ASTM D-638	3
TENSILE MODULUS	MPA	ASTM D-638	3200

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (standard sales specifications)

Density and shrinkage of this grade are approximately around 1.04 kg/lit & (0.4-0.7) % (ASTM D-955) respectively. All tests are carried out at 23°C, unless otherwise stated.

If in grade reference the fourth digit is "1"(1161), indicates an external lubricant 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.

