



SIRJAN GOSTAR CO.

G.P.P.S - 1160
GENERAL PURPOSE POLYSTYRENE

- Product Description

GPPS 1160 is a high heat resistance, high molecular weight crystalline polystyrene used in the extrusion industry. It is most suitable for the production of oriented polystyrene (OPS), particularly useful for the production of thick sheets by direct gassing, where it gives expanded sheets with high mechanical properties.

GPPS 1160 can be used in combination with HIPS 7240 for the extrusion of sheet in hot-fill thermoforming applications.

- Typical Data:

Property	Unit	Value		Test Method
MFI (200oc/5kg)	g/10 min	2.5		ASTMD 1238
Styrene Residual Monomer	PPM	<500		CLGLABPSG004 (ATOFINA TEST METHOD)
Vicat Softening Point	OC	Min101		ASTMD 1525
Rockwell Hardness	-	Scale	L70	ASTMD 785
Tensile Strength @ Yeild	MPa	-		ASTMD 638
Tensile Strength @ Break	MPa	48		ASTMD 638
Elongation @ Break	%	3		ASTMD 638
Flexural Modulus	MPa	2900		ASTMD 790
Tensile Modulus	-	3200		ASTMD 638
Refractive Index	-	1.591		ISO Method
Water Absorption	%	<0.1		ASTMD 570

Density: 1.04gr/cm³ (app.)

Shrinkage in mould : approximately 0.4-0.7% (ASTM D 955)

All tests are carried out at 23OC ,unless otherwise stated.

The above data are typical laboratory average, intended to serve as guides only.



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- Processing Conditions:

GPPS1160 can be processed under different conditions depending on machinery available and articles moulded. During processing of GPPS1160 small quantities of styrene monomer may be released into the atmosphere. At styrene concentrations of 50 up to 100 ppm (TLV value for styrene monomer), no negative effects on health are expected.

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- Applications:

Extrusion: Shower cabinets; Thin film; Lighting Insulation board; Foam sheet; meat trays, Egg boxes.



- Storage:

GPPS1160 should be stored in dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration.

- Packing:

This product is packed in 25 Kg PE bags

- Food Contact:

The composition of products complies with the EC Directive 90/128/EEC for use in food contact applications.



Note: This Product is food contact in accordance with license No.21/15242 of food and drug administration of I.R. of IRAN. License No. is printed on every bag of the product.

IMPORTANT!

Food contact application of this product has been certified as notified above. However when it is used as raw material for further processing. The issued license will be no more valid for final products.

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