

GPPS1160
GENERAL PURPOSE POLYSTYRENE

1) 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.

2) 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.

3) Typical data

Property	Unit	Value	Test Method
MFI (200 ^o c/5kg)	g/10 min	2.5	ASTM D 1238
Styrene residual monomer	PPM	<500	CLGLABPSG004 (ATOFINA TEST METHOD)
Vicat softening point	oC	Min101	ASTM D 1525
Rockwell hardness	-	Scale L70	ASTM D 785
Tensile strength @ yeild	MPa	-	ASTM D 638
Tensile strength @ break	MPa	48	ASTM D 638
Elongation @ break	%	3	ASTM D 638
Flexural modulus	MPa	2900	ASTM D 790
Tensile modulus	-	3200	ASTM D 638
Refractive index	-	1.591	ISO Method
Water Absorption	%	<0.1	ASTM D 570

Density of this grade is approximately : 1.04 gr/cm³ 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