

	<b>TYPICAL DATA SHEET*</b>	ISSUE DATE	JAN 2025
	<b>GENERAL PURPOSE POLYSTYRENE(GPPS)</b>	www.tpcو.ir	
	<b>GPPS1460</b>	IRAN/TABRIZ/TABRIZPETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

GPPS1460 is a high heat resistance and molecular weight crystal polystyrene for extrusion process with thick wall injection molding application.

**Features:** It is particularly useful in the production of thick sheet by direct inject gassing, where it gives expanded sheets with high mechanical properties. This grade has food contact approval.

**Processing Method:** extrusion and injection molding

**Application:** insulation board (xps), foam sheet of food & fruits trays.

### Description

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(200°C-5KG)	gr/10min	ASTM D-1238	6.5
STYRENE RESIDUAL MONOMER	ppm	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT ( 50 °C/hr 1kg)	°c	ASTM D-1525	98
HDT(120°C/HR AND 1.82MPa)	°c	ASTM D-648	80
TENSILE STRESS AT BREAK	MPa	ASTM D-638	45
ELONGATION AT BREAK	%	ASTM D-638	3
TENSILE MODULUS	MPa	ASTM D-638	4100
FLEXURAL MODULUS	MPa	ASTM D-790	3000
FLEXURAL STRENGTH	MPa	ASTM D-790	85
IZOD IMPACT	Kj/m <sup>2</sup>	ISO180/1A	1.9
ROCKWELL HARDNESS	-	ASTM D-785	M SCALE/71
FLAMMABILITY	-	UL94	HB
DENSITY	gr/cm <sup>3</sup>	ASTM D-792	1.04
SHRINKAGE	%	ASTM D-955	0.55

\*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). All tests are carried out at 23°C, unless otherwise stated. If the injection molding products quality is affected by moisture, granules of GPPS could be dried at 70°C for 2-4 hours.