

	TYPICAL DATA SHEET*	ISSUE DATE	JAN 2025
	GENERAL PURPOSE POLYSTYRENE(GPPS)	www.tpc.co.ir	
	GPPS1340	IRAN/TABRIZ/TABRIZPETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

GPPS1340 is high molecular weight crystal polystyrene for extrusion and injection molding. It is particularly useful in the production of sheet with high mechanical properties. GPPS1340 can also be used in dilution with HIPS7240 for extrusion of sheet for thermoforming.

Features: It is particularly useful in the production of thick sheet by direct inject gassing, where it gives expanded sheets with high mechanical properties.

Processing Method: extrusion and injection molding

Application: sheet and profile extrusion, packaging, dilution of impact grades for extrusion, injection molding.

Description

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(200°C-5KG)	gr/10min	ASTM D-1238	4
STYRENE RESIDUAL MONOMER	ppm	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT (50 °C/hr 1kg)	°c	ASTM D-1525	97
HDT(120°C/HR AND 1.82MPa)	°c	ASTM D-648	75
TENSILE STRESS AT BREAK	MPa	ASTM D-638	50
ELONGATION AT BREAK	%	ASTM D-638	2.5
TENSILE MODULUS	MPa	ASTM D-638	4200
FLEXURAL MODULUS	MPa	ASTM D-790	3000
FLEXURAL STRENGTH	MPa	ASTM D-790	82
IZOD IMPACT	Kj/m ²	ISO180/1A	1.9
ROCKWELL HARDNESS	-	ASTM D-785	M SCALE/72
HAZE	%	ASTM D-1003	1
DENSITY	gr/cm ³	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.