	TYPICAL DATA SHEET*	ISSUE DATE	Jul 2025
	GENERAL PURPOSE POLYSTYRENE(GPPS)	www.tpco.ir	
	GPPS1540	IRAN/TABRIZ/TABRIZPETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

GPPS1540 is easy flowing crystal polystyrene designed for extrusion or injection applications. It improves extruder output and thermoforming cycle time when mixed with a high impact polystyrene such as HIPS7240.
Features: It is particularly suitable for glossy-layer co extrusion. This grade has food contact approval.
Processing Method: injection molding
Application: packaging articles, Petri dishes, office equipments, pen barrels, crisper boxes for refrigerators, cups, and food containers gloss layer co extrusion and anionic styrene butadiene copolymer dilution.

Description

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(200°C-5KG)	gr/10min	ASTM D-1238	11
STYRENE RESIDUAL MONOMER	ppm	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT (50 °C/hr 1kg)	°c	ASTM D-1525	91
HDT(120ºC/HR AND 1.82MPa)	°c	ASTM D-648	73
TENSILE STRENGTH AT BREAK	MPa	ASTM D-638	43
ELONGATION AT BREAK	%	ASTM D-638	3
TENSILE MODULUS	MPa	ASTM D-638	4100
FLEXURAL MODULUS	MPa	ASTM D-790	2900
FLEXURAL STRENGTH	MPa	ASTM D-790	73
IZOD IMPACT(NOTCHED)	Kj/m^2	ISO180/1A	1.6
ROCKWELL HARDNESS	-	ASTM D-785	M SCALE/ 70
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 in grade reference the fourth digit is "1"(1541), indicates an external lubricants 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.