

	TYPICAL DATA SHEET*	ISSUE DATE	JAN 2025
	GENERAL PURPOSE POLYSTYRENE(GPPS)	www.tpc.co.ir	
	GPPS1810	IRAN/TABRIZ/TABRIZPETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

GPPS1810 is easy flowing crystal polystyrene designed for injection applications.

Features: It is particularly useful in the production of thin wall appliances.

Processing Method: injection molding

Application: Petri dishes, blood sample tubes, disposable beakers and thin wall moldings.

Description

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(200°C-5KG)	gr/10min	ASTM D-1238	20
STYRENE RESIDUAL MONOMER	ppm	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT (50 °C/hr 1kg)	°c	ASTM D-1525	90
HDT(120°C/HR AND 1.82MPa)	°c	ASTM D-648	70
TENSILE STRENGTH AT BREAK	MPa	ASTM D-638	40
ELONGATION AT BREAK	%	ASTM D-638	2
TENSILE MODULUS	MPa	ASTM D-638	4000
FLEXURAL MODULUS	MPa	ASTM D-790	2800
FLEXURAL STRENGTH	MPa	ASTM D-790	72
IZOD IMPACT	Kj/m ²	ISO180/1A	1.3
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 the injection molding products quality is affected by moisture, granules of GPPS could be dried at 70°C for 2-4 hours.