

	TYPICAL DATA SHEET*	ISSUE DATE	OCT 2024
	HIGH IMPACT POLYSTYRENE(HIPS)	www.tpc.co.ir	
	HIPS8350	IRAN/TABRIZ/TABRIZPETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

HIPS8350 is very high impact polystyrene for extrusion sheets with improved ESCR in comparison with other standard high impact polystyrene such as HIPS7240. The good melt strength of this grade makes it particularly suited for deep-draw thermoforming.

Features: It is recommended for the production of packaging intended for products likely to cause stress cracking, for example fats and oils. HIPS8350 retains good mechanical properties at low temperatures making this grade suitable for frozen food packaging and for the production of fridge liners in contact with "HCFC" expanded foam insulation. This grade has food contact approval.

Processing Method: extrusion

Application: thermoforming, fridge doors and cabinet liners, packaging for fatty foods sheets.

Description

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(200°C/5KG)	gr/10min	ASTM D-1238	4.5
STYRENE RESIDUAL MONOMER	ppm	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT(50 °C/hr 1kg)	°C	ASTM D-1525	96
HDT(120°C/HR AND 1.82MPa)	°C	ASTM D-648	78
ROCKWELL HARDNESS	-	ASTM D785	90 R SCALE
TENSILE STRESS AT YEILD	MPa	ASTM D638	18
TENSILE STRESS AT BREAK	MPa	ASTM D638	20
ELONGATION AT BREAK	%	ASTM D638	60
TENSILE MODULUS	MPa	ASTM D638	1600
IZOD IMPACT	KJ/m ²	ISO180/1A	13
DENSITY	gr/cm ³	ASTM D-792	1.04
SHRINKAGE	%	ASTM D-955	0.55
YELLOWNESS INDEX	-	ASTM E-313	-3
WHITENESS INDEX	-	ASTM E-313	80

* 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.