

	TYPICAL DATA SHEET*	ISSUE DATE	OCT 2024
	HIGH IMPACT POLYSTYRENE(HIPS)	www.tpc.ir	
	HIPS7350ESCR	IRAN/TABRIZ/TABRIZPETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

HIPS7350ESCR is a high impact polystyrene grade with improved stress cracked resistance compared to conventional high impact polystyrene.

Features: The excellent melt strength of this grade makes it particularly suited for deep-draw thermoforming. It offers good environmental stress crack resistance at low temperatures, rendering it suitable for frozen packaging, refrigerator liners and door paneling while retaining good mechanical properties. It is recommended for packaging applications such as oily food and dairy products. This grade has food contact approval.

Processing Method: extrusion

Application: Sheet extrusion application, Refrigerator inner liner, Refrigerator door liner, Packaging applications for oily food and dairy products.

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	93
HDT(120°C/HR AND 1.82MPa)	°C	ASTM D-648	80
ROCKWELL HARDNESS	-	ASTM D785	92 R SCALE
TENSILE STRESS AT YEILD	MPa	ASTM D-638	18
TENSILE STRESS AT BREAK	MPa	ASTM D-638	20
ELONGATION AT BREAK	%	ASTM D-638	50
TENSILE MODULUS	MPa	ASTM D-638	1600
IZOD IMPACT	KJ/m ²	ISO180/1A	12
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.