

	TYPICAL DATA SHEET*	ISSUE DATE	16/June/2020
	HIGH IMPACT POLYSTYRENE (HIPS)	WWW.TPCO.IR	
	HIPS7350ESCR	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL: +984134282612	

HIPS 7350 ESCR is a high impact polystyrene grade with improved stress cracked resistance compared to conventional high impact polystyrene. 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.

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

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(200°C/5KG)	g/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
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/M2	ISO180/1A	12

* 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). Density and shrinkage of this grade are approximately around 1.04 kg/lit & (0.4-0.7) % (ASTM D-955) respectively. All tests are carried out at 23°C, unless otherwise stated.