TDS TECHNICAL DATA SHEET

HIPS 7240

High Impact Polystyrene · Sheet & Thermoforming Grade

Origin: **Iran**

MFI (200 °C / 5 KG)	DENSITY	PROCESS	ELONGATION
4.5 g/10 min	**1.04** g/cm³	**Sheet Extrusion**	**60** %

PRODUCT DESCRIPTION

HIPS 7240 is a very high impact polystyrene for the extrusion industry, designed to be diluted with crystal polystyrene. Its good melt strength makes it particularly suited to deep-draw thermoforming of dairy cups, trays and food containers. Available in white.

- Very high impact
- Good melt strength
- Deep-draw thermoforming
- Blends with GPPS

PROCESSING GUIDE

Process	**Sheet extrusion & thermoforming**
Melt temperature	**190 – 240 °C**
Pre-drying	**70 °C, 2 – 4 h**
Shrinkage	**0.4 – 0.7 %**

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Melt Flow Index (200 °C / 5 kg)	ASTM D1238	g/10 min	**4.5**
Density	ASTM D792	g/cm³	**1.04**
Residual Styrene Monomer	GC method	ppm	**< 500**
MECHANICAL			
Tensile Stress at Yield	ASTM D638	MPa	**23**
Tensile Stress at Break	ASTM D638	MPa	**21**
Elongation at Break	ASTM D638	%	**60**
Tensile Modulus	ASTM D638	MPa	**1950**
Izod Impact Strength	ISO 180	kJ/m²	**11**
Rockwell Hardness	ASTM D785	R scale	**65**
THERMAL			
Vicat Softening Point (1 kg, 50 °C/h)	ASTM D1525	°C	**97**

APPLICATIONS

- Dairy Cups
- Food Trays
- Egg Boxes
- Industrial Sheet

PACKAGING

25 kg PE / woven bags

Palletised or jumbo on request

20′ / 40′ container loading

SUPPLY

Sea from Bandar Abbas, road or rail – **agreed per order**

FCA, CPT or DAP – terms in the offer

Pre-shipment inspection & export documents

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The values above are typical and are not to be construed as specification limits. Users should verify suitability for their own process and application.