TDS TECHNICAL DATA SHEET

GPPS 1540

General Purpose Polystyrene · Extrusion & Injection Grade

Origin: **Iran**

MFI (200 °C / 5 KG)	DENSITY	PROCESS	TENSILE MODULUS
11 g/10 min	**1.04** g/cm³	**Extrusion / Injection**	**3100** MPa

PRODUCT DESCRIPTION

GPPS 1540 is an easy-flowing crystal polystyrene for extrusion and injection moulding. It improves extruder output and thermoforming cycle time when blended with high-impact polystyrene and is particularly suitable for glossy-layer co-extrusion. Food-contact grade.

- Easy flowing
- Faster thermoforming cycles
- Crystal clear & glossy
- Food-contact grade

PROCESSING GUIDE

Process	**Extrusion & injection**
Melt temperature	**180 – 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	**11**
Density	ASTM D792	g/cm³	**1.04**
Residual Styrene Monomer	GC method	ppm	**< 500**
Mould Shrinkage	ASTM D955	%	**0.4 – 0.7**
MECHANICAL			
Tensile Strength at Break	ASTM D638	MPa	**42**
Elongation at Break	ASTM D638	%	**2**
Tensile Modulus	ASTM D638	MPa	**3100**
Rockwell Hardness	ASTM D785	L scale	**70**
THERMAL			
Vicat Softening Point (1 kg, 50 °C/h)	ASTM D1525	°C	**91**

APPLICATIONS

- Food Packaging & Cups
- Petri Dishes & Lab Ware
- Refrigerator Crisper Boxes
- Office & Pen Barrels

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.