

## Technical Datasheet 1540

### Product Description:

GPPS1540 is an easy flowing crystal polystyrene designed for extrusion or injection applications. In extrusion, it improves extruder output and thermoforming cycle times when mixed with a super high impact polystyrene such as HIPS7240. It is particularly suitable for glossy-layer co-extrusion. It does combine excellent fluidity with a higher softening point than GPPS1810/1811 grade.

### 1) Applications:

- Extrusion: Impact dilution; Gloss layer in co-extrusion; Anionic styrene butadiene copolymer dilution.
- Injection: Packaging articles; Medical applications, eg, Petri dishes; Office equipment; Pen barrels; Crisper boxes for refrigerators; Cups.

### 2) Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
MFI (200°C/5kg)	ASTM D 1238	g/10min	11
Styrene residual monomer	CLGLABPSG004 (ATOFINA TEST METHOD)	ppm	<500
Vicat softening point	ASTM D 1525	°C	Min 89.5
Rockwell hardness	ASTM D 785	--	Scale
Tensile Strength at Yield	ASTM D 638	MPa	L70
Tensile Strength at Break	ASTM D 638	MPa	45
Elongation at break	ASTM D 638	%	2
Flexural modulus	ASTM D 790	MPa	3000
Tensile modulus	ASTM D 638	--	3100
Refractive index	ISO Method	--	1.591
Water absorption	ASTM D 70	%	<0.1

\* Typical values not to be construed as specifications.

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