

TYPICAL DATA SHEET*	ISSUE DATE	16/June/2020
GENERAL PURPOSE POLYSTYRENE (GPPS)	WWW.TPCO.IR	
GPPS1160	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

GPPS1160 is a high heat resistance and molecular weight crystal polystyrene for extrusion and bi oriented polystyrene (OPS) industry. It is particularly useful in the production of thick sheet by direct inject gassing, where it gives expanded sheets with high mechanical properties. GPPS1160 can also be used in dilution with HIPS7240 for extrusion of sheet for thermoforming. This grade has food contact approval

Applications: shower cabinets, lighting thin films, insulation board, foam sheet of fruits trays, meat trays, egg boxes.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(200°C-5KG)	g/10min	ASTM D-1238	2.5
STYRENE RESIDUAL MONOMER	PPM	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT ( 50 °C/hr 1kg)	°C	ASTM D-1525	105
ROCKWELL HARDNESS	-	ISO2039-2	SCALE/L70
TENSILE STRESS AT BREAK	MPA	ISO527-2	48
ELONGATION AT BREAK	%	ISO527-2	3
TENSILE MODULUS	MPA	ISO527-2	3200

<sup>\*</sup>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 test s are carried out at 23°C, unless otherwise stated. If in grade reference the fourth digit is "1"(1161), indicates an external lubricants is included. If the injection molding products quality is affected by moisture, granules of GPPS could be dried at 70°C for 2-4 hours.



STANDARD SALES SPECIFICATIONS (GUARANTEED ITEMS)*	ISSUE DATE	June-2020
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PROPERTY	UNIT	TEST METHOD	SPECIFICATION RANGE
MELT FLOW INDEX (200 ∘C - 5KG)	g/10min	ASTM D-1238	1.8-3.2
VICAT SOFTENING POINT ( 50 °C/hr 1kg)	°C	ASTM D-1525	MIN 101
RESIDUAL MONOMER	PPM	ATOCHEM PSG-004	MAX 500

<sup>\*</sup>FOR MORE INFORMATION PLEASE CALL QUALITY ASSURANCE DEPARTMENT AT ABOVE ADDRESS.





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GPPS1460	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

GPPS1460 is a high heat resistance and molecular weight crystal polystyrene for extrusion and thick walled injection molding application. It is particularly useful in the production of thick sheet by direct inject gassing, where it gives expanded sheets with high mechanical properties. This grade has food contact approval.

Applications: insulation board (xps), foam sheet of food & fruits trays.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(200°C-5KG)	g/10min	ASTM D-1238	6.5
STYRENE RESIDUAL MONOMER	PPM	CLG LABRSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT ( 50 °C/hr 1kg)	°C	ASTM D-1525	103
TENSILE STRESS AT BREAK	MPA	ISO527-2	48
ELONGATION AT BREAK	%	ISO527-2	3
TENSILE MODULUS	MPA	ISO527-2	3200

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GPPS1460	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+98413428261;	

PROPERTY	UNIT	TEST METHOD	SPECIFICATION RANGE
MELT FLOW INDEX (200 ∘C - 5KG)	g/10min	ASTM D-1238	5-7.5
VICAT SOFTENING POINT ( 50 °C/hr 1kg)	°C	ASTM D-1525	MIN 101
RESIDUAL MONOMER	PPM	ATOCHEM PSG-004	MAX 500

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GENERAL PURPOSE POLYSTYRENE (GPPS)	<u>WWW.TPCO.IR</u>		
GPPS1540	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612		

GPPS1540 is easy flowing crystal polystyrene designed for extrusion or injection applications. It improves extruder output and thermoforming cycle time when mixed with a high impact polystyrene such as HIPS7240.It is particularly suitable for glossy-layer co extrusion. This grade has food contact approval.

Applications: packaging articles, Petri dishes, office equipments, pen barrels, crisper boxes for refrigerators, cups, food containers gloss layer co extrusion and anionic styrene butadiene copolymer dilution.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(200°C-5KG)	g/10min	ASTM D-1238	11
STYRENE RESIDUAL MONOMER	PPM	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT (50 °C/hr 1kg)	°C	ASTM D-1525	91
ROCKWELL HARDNESS	-	ISO2039-2	L SCALE/ 70
TENSILE STRENGTH AT BREAK	MPA	ISO527-2	42
ELONGATION AT BREAK	%	ISO527-2	2
TENSILE MODULUS	MPA	ISO527-2	3100

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GPPS1540	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

PROPERTY	UNIT	TEST METHOD	SPECIFICATION RANGE
MELT FLOW INDEX (200 ∘C - 5KG)	g/10min	ASTM D-1238	9-13
VICAT SOFTENING POINT ( 50 °C/hr 1kg)	°C	ASTM D-1525	MIN 89.5
RESIDUAL MONOMER	PPM	ATOCHEM PSG-004	MAX 500

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