

	TYPICAL DATA SHEET*		ISSUE DATE	Feb-14
			VALID UNTIL	Feb-15
	GRADE		WWW.TPCO.IR	
	GPPS1160		IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984114282612	

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.

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	ISO 1133 H	2.5
STYRENE RESIDUAL MONOMER	PPM	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
VICAT SOFTENING POINT (50 °C/hr 1kg)	°C	ISO 306A50	105
ROCKWELL HARDNESS	-	ISO 2039-2	SCALE/L70
TENSILE STRESS AT BREAK	MPA	ISO 527-2	48
ELONGATION AT BREAK	%	ISO 527-2	3
FLEXURAL MODULUS	MPA	ISO 178	2900
TENSILE MODULUS	MPA	ISO 527-2	3200
WATER ADSORPTION	%	ISO 62	<0.1

*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 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.