

## GPS 1028

General Purpose Polystyrene for  
Extrusion and Molding

### Product description:

General purpose polystyrene GPS 1028 is manufactured by continuous mass polymerization of styrene monomer.

It has very high molecular weight, high heat grade, high melt strength, good clarity and mechanical strength.

### Typical applications:

It is recommended for XPS sheets and plates, and extruded embossed sheets, and its suitable for food applications.

### Typical data:

Properties	Unit	value	ASTM method
<b>Physical</b>			
Melt Flow Index (200°C - 5 kg)	g/10min	2.4	ASTM D1238
<b>Mechanical Properties</b>			
Tensile Strength at Break (23°C)	MPa	55	ASTM D638
Flexural Modulus	MPa	3200	ASTM D790
Izod Impact (Notched)	J/m	22	ASTM D256
<b>Thermal Properties</b>			
Vicat Softening Point (@50°C/hr, 1 kg)	C	102	ASTM D1525
Styrene residual monomer	ppm	<500	ASTM D638 (ATOFINA TPST METHOD)
Tensile modulus	Mpa	2600	ASTM D638
Liner mold shrinkage	%	0.4-0.7	ASTM D955
Density	g/cc	1.04	ASTM D792

Note: All mechanical properties measured under standard conditions 50% RH and 23C.

### Packing:

GPS 1028 is supplied in the form of cylindrical of approximately 2.5x2.5 mm. The product can be supplied in either 25 kg bags.

### Regulatory information:

It is responsibility of the manufacturers of food contact articles and industrial food packers to make sure the article in their actual use are in compliance with the imposed migration requirements.

Edit date: 01/08/2022



www.petropaak.com

تهران، میدان دوم شهران، مجتمع آيسان، پلاک ۱، طبقه ۴، واحد ۴۰۴، تلفن: ۰۲۱-۴۷۱۹۹، فکس: ۰۲۱-۴۴۳۱۳۱۸۹  
Unit 404, 4th Floor, No. 1, Aysan Complex, 2nd Shahrn Sq, Tehran/Iran  
Tel : +98 21 47199 Fax : +98 21 44313189