



## *Polystyrene (PS)*

Polystyrene which has desirable characteristic such as good mould ability ,low moisture absorption, good dimensional stability ,good electric insulation properties ,color ability and reasonable chemical resistance, is widely used as an injection molding and vacuum forming material . Polystyrene are classified into three main categories:

- 1) GPPS (General purpose Polystyrene also called crystal)
- 2) HIPS (High impact Polystyrene)
- 3) EPS (Expandable Polystyrene)

Grade	Melt Flow Index (gr/10min)	Applications
GPPS1540	11	Extrusion: Impact dilution;Gloss layer in Co- extrusion; Anionic butadiene copolymer dilution. Injection:Packaging articles;Medical applications ,office equipment;crisper boxes for refrigerator;Pen barrel ;cups.
GPPS1160	2.5	Extrusion: Shower cabinet;lighting thin films;Diluted with high impact polystyrene for thermoforming,it shows resistance against high temperatures.In line extrusion/thermoforming of transparent cups. Direct gassing:Insulation board;Foamed sheet for thermoforming of fruit trays,meat trays,egg boxes.





HIPS 7240	4.5	Extrusion: Dairy sheet coextrusion with EVOH PE ,in dilution with crystal industrial sheet. Thermoforming: Cups; Trays; Egg boxes; General packaging .Dilution with crystal for CD inserts, shoe heels.
HIPS 8350	4.5	Extrusion for thermoforming, fridge doors and cabinet liners. It is suitable for fatty foods packaging

*Density of these grades is approximately : 1.04gr/cm<sup>3</sup>*

*Shrinkage of all grades in mould is approximately :*

*(0.4- 0.7%) (ASTM D 955) All tests are carried out*

*at 23<sup>o</sup>C unless otherwise stated.*

*Producer: Tabriz Petrochemical Company(TPC)*

*The above data are typical laboratory average. They are intended to serve as guides only.*



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