



General Purpose Polystyrene for  
Injection molding and Extrusion

## GPPS AP1077

### Product description:

General purpose polystyrene GPPS AP 1077 is manufactured by continuous masspolymerization of styrene monomer.

It has medium heat grade , medium melt strength , good clarity and mechanical strength.

### Typical applications:

It is recommended for house ware,containers,drinking cup,table ware,optical parts,plastic bangles, cosmetic packing parts ,stationery products and XPS sheets and plates.

### Typical data:

| properties                             | unit              | value | ASTM method |
|--|-------------------|-------|-------------|
| <b>physical</b>                        |                   |       |             |
| Melt flow rate @200°C & 5 kg load      | g/10min           | 7     | D1238       |
| <b>Mechanical properties</b>           |                   |       |             |
| Tensile strenght                       | Mpa               | 52    | D638        |
| Flexural modulus                       | Mpa               | 3100  | D790        |
| Charpy impact strength(un notched)     | Kj/m <sup>2</sup> | 8     | D256        |
| <b>Thermal properties</b>              |                   |       |             |
| Vicat softening point @120°C,1 kg(min) | C                 | 100   | D1525       |

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

### Packing:

GPPS AP 1077 is supplied in the form of cylindrical of approximately 2.5×2.5 mm. the material can be supplied in either 25 kg bags.

Edit date : 01/06/2022