

GPPS 1105

Moheb Baspar Ideh Gostar Petrochemical Co.

Product description: Gpps 1105 is a very transparent polystyrene with high molecular weight, resistant to high stress and very suitable properties for use in extrusion and injection molding, it is also possible to be combined with HIPS 4512 in any ratio for thermoforming.

Processing: It can be injection molded under different conditions depending upon the size of machine, size & shape of components. Pre-drying normally not required.

Applications: The uses include protective packing such as food, cosmetics, hygiene products, cups, lids, bottles, trays, disposable cutlery as well as House wares for instance bathroom accessories, Insulation foam, roofing, siding, panels, lighting, computer body parts, DVD and cd cases, plumbing fixtures. Tissue culture trays, test tubes, petri dishes, diagnostic components, and test kits.

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GPPS Grade Number: 1105

| Typical Properties | Value | Unit | Test Method |
|-----------------------------|-----------|--------------------|--------------|
| MFI (200 °C / 5 kg) | 4 | g/10 min | ASTM D-1238 |
| Tensile Strength at Break | 51 | MPa | ASTM D-638 |
| Tensile Strength at yield | 50 | MPa | ASTM D-638 |
| Elongation at break | 6 | % | ASTM D-638 |
| Elongation at yield | 6.5 | % | ASTM D-638 |
| Flexural Modulus | 3200 | MPa | ASTM D-790 |
| Flexural Strength | 90 | MPa | ASTM D-790 |
| Density (23 °C) | 1.02 | gr/cm ³ | ASTM D-792 |
| Vicat Softening point (A50) | 92 | °C | ASTM D-1525 |
| HDT (1.82 MPa) | 85 | °C | ASTM D-648 |
| IZOD impact (notched) | 7 | kJ/m ² | ASTM D-256 |
| Styrene Residual Monomer | <500 | ppm | CLGLABPSG004 |
| Molding shrinkage | 0.4 - 0.7 | % | ASTM D-955 |
| Rockwell Hardness (L Scale) | 70 | ---- | ASTM D-785 |
| Bead size | 2 - 2.5 | mm | ---- |
| Moisture absorption | < = 0.1 | % | ASTM D-570 |

For More information about guaranteed items, please refer to s.s.s (standard sales specifications)

Note: all mechanical properties measured under standard conditions 50% R.H and 23 c°

Note: Not flame retardant.

