

TECHNICAL DATA SHEET**GPSS-1115 – (GENERAL PURPOSE POLYSTYRENE)****Product Description**

"GPSS 1115" is easy flowing crystal polystyrene designed for extrusion or injection applications. In extrusion, it improves extruder output and thermoforming cycle times when mixed with a super high impact polystyrene such as HIPS7240. It is particularly suitable for glossy-layer co extrusion.

Process Conditions:

"GPSS 1115" can be processed under different conditions depending on machinery available and articles molded. During processing of GPSS 1115 small quantities of styrene monomer may be released into the atmosphere.

Applications:

- Extrusion: Impact dilution; Gloss layer in co-extrusion; Anionic styrene butadiene copolymer dilution.
- Injection: Packaging articles; Medical applications, e.g., Petri dishes; Office equipment; Pen barrels; crisper boxes for refrigerators; Disposable Cups.

Food Contact Processing:

- GPSS 1115 is a food contact grade

Origin: Middle East

| <u>Property</u> | <u>Test Method</u> | <u>Units</u> | <u>Values</u> |
|-------------------------------------|------------------------------------|---------------------|----------------------|
| Melt Flow Index (200°C-5KG) | ASTM D 1238 | g/10min | 10 |
| Styrene Residual Monomer | CLG LABPSG004(ATOFINA TEST METHOD) | PPM | <500 |
| Vicat Softening Point (50 °C/hr1kg) | ASTM D 1525 | °C | 95 |
| Tensile Strength at Break | ASTM D 638 | MPA | 42 |
| Elongation at Break | ASTM D 638 | % | 2.5 |
| Tensile Modulus | ASTM D 638 | MPA | 2900 |
| Water Absorption | ASTM D 570 | % | <0.1 |
| Moulding Shrinkage | ASTM D 955 | % | 0.4 – 0.8 |
| Density | ASTM D 792 | g/cm ³ | 1.04 |