

HIPS7240

HIGH IMPACT POLYSTYRENE

Product Description

HIPS7240 is a very high impact polystyrene used in the extrusion industry. This grade is designated to be diluted with crystal polystyrene (such as GPPS 1240, 1340 or 1540). The good melt strength of this grade makes it particularly suitable for deep-draw thermoforming. HIPS 7240 is available in white colour.

Applications

- Extrusion: Darty sheet, Co_extrusion with EVOH PE..., in dilution with crystal industrial sheet. Containers (up to 5 lit)
- Thermoforming: Cups, Trays, Egg boxes, General packaging. Dilution with crystal for CD inserts, Shoe heels.

| PROPERTY | UNIT | TYPICAL VALUE | TEST METHOD |
|---------------------------------|----------|---------------|--------------|
| MFI (200°C/5KG) | g/10 min | 4.5 | ASTM D 1238 |
| STYRENE RESIDUAL MONOMER | ppm | <500 | CLGLABPSG004 |
| VICAT SOFTENING POINT | °C | Min. 94 | ASTM D 1525 |
| R°CKWELL HARDNESS | - | Scale | ASTM D 785 |
| TENSILE STRENGTH @ YEILD | MPa | 21 | ASTM D 638 |
| TENSILE STRENGTH @ BREAK | MPa | 20 | ASTM D 638 |
| ELONGATION @ BREAK | % | 55 | ASTM D 638 |
| FLEXURAL MODULUS | MPa | 1750 | ASTM D 790 |
| TENSILE MODULUS | MPa | 1800 | ASTM D 638 |
| IZOD IMPACT | % | Min. 8.5 | ISO 180/1A |
| WATER ABSORPTION | % | <0.1 | ASTM D 570 |

Process conditions

HIPS7240 can be processed under different conditions depending on machinery available and articles moulded. During processing of HIPS 7240 small quantities of styrene monomer may be released into the atmosphere. At styrene concentrations of 50 up to 100 PPM (TLV value for styrene monomer), no negative effects on health are expected.

Producer: Tabriz Petrochemical Co.

Licensor: Total

Packing: 25 Kg plastic bag

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