

## Polimeri Europa Edistir N 2982 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

### Material Notes:

General purpose polystyrene with very high flow and high heat resistance. Special grade for direct gassing extrusion of heavy gage insulating boards (XPS) foamed by blowing agents alternative to CFC and HCFC. Low viscosity process-aid and modifier for compounding. Designation: Thermoplastics ISO 1622-PS,E,105-20 Applications: XPS insulation panels with improved environmental compatibility. Carrier for masterbatch. Modifier for thermoplastic elastomers and rubbers (shoe soles, cable extrusion-coating). N 2982 is certified UL94 HB "all colors" at 1.5 mm (UL file E83071). This grade in its natural version complies by composition with the requirements set by the main Regulations for plastic materials intended for food contact (including the EEC Directive 90/128 and subsequent amendments). Information provided by Polimeri Europa

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polimeri-Europa-Edistir-N-2982-Polystyrene.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-Edistir-N-2982-Polystyrene.php)

| Physical Properties | Metric                                              | English                                             | Comments                |
|---------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------|
| Bulk Density        | 0.650 g/cc                                          | 0.0235 lb/in <sup>3</sup>                           | ISO 60                  |
| Density             | 1.05 g/cc                                           | 0.0379 lb/in <sup>3</sup>                           | ISO 1183                |
| Water Absorption    | <= 0.10 %                                           | <= 0.10 %                                           | 24 hours - 23°C; ISO 62 |
| Melt Flow           | 25 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 °C | 25 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 °F | ISO 1133                |

| Mechanical Properties     | Metric   | English  | Comments          |
|---------------------------|----------|----------|-------------------|
| Tensile Strength at Break | 30.0 MPa | 4350 psi | 5 mm/min; ISO 527 |
| Elongation at Break       | 1.0 %    | 1.0 %    | 5 mm/min; ISO 527 |
| Tensile Modulus           | 3.15 GPa | 457 ksi  | 1 mm/min; ISO 527 |
| Flexural Strength         | 40.0 MPa | 5800 psi | 2 mm/min; ISO 178 |

| Thermal Properties                          | Metric                               | English                                | Comments                 |
|---------------------------------------------|--------------------------------------|----------------------------------------|--------------------------|
| CTE, linear                                 | 70.0 µm/m-°C<br>@Temperature 20.0 °C | 38.9 µin/in-°F<br>@Temperature 68.0 °F | ASTM D 696               |
| Thermal Conductivity                        | 0.170 W/m-K                          | 1.18 BTU-in/hr-ft <sup>2</sup> -°F     | ISO 8302                 |
| Deflection Temperature at 1.8 MPa (264 psi) | 89.0 °C                              | 192 °F                                 | 120°C/h; ASTM D 648      |
| Vicat Softening Point                       | 101 °C                               | 214 °F                                 | 50 N - 50°C/h; ISO 306/B |

| Thermal Properties | 106 °C<br>Metric         | 223 °F<br>English          | 10 N - 50°C/h; ISO 306/A<br>Comments |
|--------------------|--------------------------|----------------------------|--------------------------------------|
| Flammability, UL94 | HB<br>@Thickness 1.50 mm | HB<br>@Thickness 0.0591 in | UL94                                 |

| Processing Properties | Metric       | English      | Comments  |
|-----------------------|--------------|--------------|-----------|
| Melt Temperature      | 190 - 220 °C | 374 - 428 °F | Extrusion |

## Contact Songhan Plastic Technology Co.,Ltd.

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