

## PRODUCT OVERVIEW

A transparent general-purpose polystyrene grade designed for rigid moulded articles and sheet extrusion where clarity, stiffness and dimensional consistency are required.

|                      |                    |                        |                       |
|----------------------|--------------------|------------------------|-----------------------|
| <b>Base / family</b> | Styrenic Materials | <b>Primary process</b> | Injection / extrusion |
| <b>Supply form</b>   | Pellets            | <b>Standard colour</b> | Transparent           |

## TYPICAL PROPERTIES

| Property / condition                 | Test method   | Typical value | Unit              |
|--------------------------------------|---------------|---------------|-------------------|
| Density, 23°C                        | ISO 1183-1    | <b>1.05</b>   | g/cm <sup>3</sup> |
| Melt flow rate, 200°C/5 kg           | ISO 1133-1    | <b>4</b>      | g/10 min          |
| Tensile strength at break, 23°C      | ISO 527-2     | <b>45</b>     | MPa               |
| Elongation at break, 23°C            | ISO 527-2     | <b>3</b>      | %                 |
| Tensile modulus, 23°C                | ISO 527-2     | <b>3,200</b>  | MPa               |
| Flexural modulus, 23°C               | ISO 178       | <b>3,200</b>  | MPa               |
| Unnotched Charpy impact, 23°C        | ISO 179-1/1eU | <b>8</b>      | kJ/m <sup>2</sup> |
| Vicat softening temperature, VST/B50 | ISO 306       | <b>94</b>     | °C                |
| Luminous transmittance, 2 mm plaque  | ASTM D1003    | <b>≥ 88</b>   | %                 |
| Haze, 2 mm plaque                    | ASTM D1003    | <b>≤ 2.0</b>  | %                 |
| Mould shrinkage, flow/transverse     | ISO 294-4     | <b>0.6</b>    | %                 |

Unless otherwise stated, standard specimen preparation and conditioning apply. Typical values are representative and are not minimum specification limits.

|                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |
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| <b>APPLICATIONS</b> <ul style="list-style-type: none"> <li>• Rigid household articles</li> <li>• Transparent consumer products</li> <li>• Stationery</li> <li>• Appliance components</li> <li>• Extruded sheets and profiles</li> </ul> | <b>KEY BENEFITS</b> <ul style="list-style-type: none"> <li>• High clarity</li> <li>• High stiffness</li> <li>• Predictable shrinkage</li> <li>• Stable injection and extrusion processing</li> </ul> |
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## PROCESSING GUIDELINES

Injection moulding: melt 180-240°C; mould 20-60°C. Extrusion: melt 180-220°C. Use suitable filtration, controlled residence time and balanced chill-roll temperatures for optical sheet.

Technical note: Optical values refer to a 2 mm plaque prepared under controlled moulding conditions.

|                                                                                                                                                                                                   |                                                                                                                                                                                   |
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| <b>PACKAGING AND STORAGE</b> <p>25 kg moisture-resistant bags on pallets. Store dry, below 40°C, away from sunlight and direct heat. Recommended shelf life: 12 months in unopened packaging.</p> | <b>REGULATORY DOCUMENTATION</b> <p>Current safety and grade-specific regulatory documentation is available through Technical Service for the intended application and market.</p> |
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The information in this document is provided for material selection and processing guidance. Suitability for a specific design, process and end use should be confirmed by the user under actual service conditions.