

PRODUCT OVERVIEW

A natural high-impact polystyrene grade offering a practical stiffness-toughness balance for moulding, sheet extrusion and thermoforming.

Base / family	Styrenic Materials	Primary process	Injection / extrusion
Supply form	Pellets	Standard colour	Natural / custom colour

TYPICAL PROPERTIES

Property / condition	Test method	Typical value	Unit
Density, 23°C	ISO 1183-1	1.04	g/cm ³
Melt flow rate, 200°C/5 kg	ISO 1133-1	4.2	g/10 min
Tensile stress at yield, 23°C	ISO 527-2	24	MPa
Tensile modulus, 23°C	ISO 527-2	1,950	MPa
Flexural modulus, 23°C	ISO 178	1,900	MPa
Notched Izod impact, 23°C	ISO 180/1A	10	kJ/m ²
Elongation at break, 23°C	ISO 527-2	55	%
Vicat softening temperature, VST/B50	ISO 306	88	°C
Mould shrinkage, flow/transverse	ISO 294-4	0.6	%

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

APPLICATIONS • Appliance parts • Technical articles • Consumer mouldings • Extruded sheet • Thermoformed non-regulated products	KEY BENEFITS • Reliable impact response • Balanced rigidity • Stable flow • Good surface appearance • Easy colouring
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PROCESSING GUIDELINES

Injection moulding: melt 190-240°C; mould 20-60°C. Sheet extrusion: melt 180-220°C. Optimise die profile, draw-down and roll temperatures for gauge stability and surface finish.

PACKAGING AND STORAGE 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.	REGULATORY DOCUMENTATION Current safety and grade-specific regulatory documentation is available through Technical Service for the intended application and market.
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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.