

ASCHEM GPPS General Purpose Polystyrene (Crystalline)

GPPS 500

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Description

General purpose polystyrene PS 500 is a crystal like, hard and brittle polymer; easy flow with excellent clarity. It is designed for thin to medium wall thickness of articles. The broad molding range provides maximum facility in processing conditions.

Applications

It is recommended for the manufacture of packaging items such as plastic boxes and typical applications include cutlery, office and stationery items or any clear injection items.

Characteristic Properties (Typical Data)*

Properties	SI Units	Values	Test Methods
Polymer Properties			
Melt Flow Rate (MFR) 200 °C and 5 Kg	g/10 min	16	ASTM D 1238
Mechanical Properties			
Tensile Test			
Tensile Strength	MPa	40	ASTM D 638
Tensile Elongation	%	1,5	ASTM D 638
Tensile Modulus	MPa	3200	ASTM D 638
Flexural Test			
Flexural Modulus	MPa	3050	ASTM D 790
Flexural Strength	MPa	70	ASTM D 790
Izod Impact Strength, Notched at 23 °C	J/m	12	ASTM D256
Thermal Properties			
Heat Deflection Temperature			
Rate 120 °C/h, 0,45 MPa, Annealed	°C	88	ASTM D 648
Vicat Softening Temperature			
Rate 120 °C/h, 10N, Annealed	°C	92	ASTM D 1525

*These values are typical data that shouldn't be accepted as specification limits.

Disclaimer

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties. It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us. Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.