

ASCHEM GPPS General Purpose Polystyrene (Crystalline)

GPPS 530

Rev. Date: 24.01.2019. Page 1 / 1

Description

General purpose polystyrene GPPS 530 is a crystal like, hard and brittle polymer with high molecular weight which imparts high tensile strength to end products. It is developed for production of strong and tough extruded foam applications.

Applications

It is recommended for extrusion used in the manufacture of egg cartons and for insulation boards. Production of biscuits and cake trays that require low odor. Production of transparent parts of white appliances, small house appliances, shower screens and the oriented polystyrene packaging products.

Characteristic Properties (Typical Data)*

Properties	SI Units	Values	Test Methods
Polymer Properties			
Melt Flow Rate (MFR) 200 °C and 5 Kg	g/10 min	3,2	ASTM D 1238
Mechanical Properties			
Tensile Test			
Tensile Strength	MPa	44	ASTM D 638
Tensile Elongation	%	2	ASTM D 638
Tensile Modulus	MPa	3200	ASTM D 638
Flexural Test			
Flexural Modulus	MPa	3100	ASTM D 790
Flexural Strength	MPa	92	ASTM D 790
Izod Impact Strength, Notched at 23 °C	J/m	22	ASTM D256
Thermal Properties			
Heat Deflection Temperature			
Rate 120 °C/h, 0,45 MPa, Annealed	°C	93	ASTM D 648
Vicat Softening Temperature			
Rate B, 10N	°C	97	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.

