

## PS 585

### General Purpose Polystyrene ( Crystal )

#### Description.

General purpose polystyrene PS 585 is a crystal like, hard and brittle polymer with high molecular weight which imparts high tensile strength to end products. Developed for production of strong and tough extruded foam.

To PS 585 no Mineral oil is added..

To PS 585 Zn-stearate is added. Zn-stearate can not be added arbitrarily.

#### Applications.

It is recommended for extrusion used in the manufacture of egg cartons and for insulation boards. For biscuits and cake trays that require low odour. In other oriented polystyrene packaging products.

#### Typical data.

Properties	UnitsSI	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> 200 °C and 5 kg	g/10 min	3,0	ASTM D 1238
<b>Density</b>	Kg/m <sup>3</sup>	1050	ASTM D 792
<b>Bulk Density Method B</b>	Kg/m <sup>3</sup>	600	ASTM D 1895
<b>Mechanical properties</b> 1)			
<b>Tensile test</b> 2)			
Tensile strength	Mpa	51	ASTM D 638
Tensile elongation	%	2	
Tensile modulus	Mpa	3200	
<b>Flexural test</b>			ASTM D 790
Flexural modulus	Mpa	3100	
Flexural strength	Mpa	95	
<b>Izod impact notched at 23 °C</b> 3)	J/m	22	ASTM D 256
<b>Thermal properties</b> 1)			
<b>Heat deflection temperature</b> Method B, 455 KPa, annealed	°C	102	ASTM D 648
<b>Vicat softening temperature</b> Rate A, 1 kg/50 °C	°C	106	ASTM D 1525

1) Based on injection moulded test specimens

2) Speed of testing: 5 mm/min

3) Thickness of test specimens: 3 mm

#### 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.

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