

General purpose polystyrene with good flow and high heat resistance. N 3982 belongs to the third generation of Edistir® GPPS.

The third generation of versalis GPPS is characterised by a brighter, neutral appearance in line with more sophisticated market needs.

Special grade for direct gassing extrusion of heavy gauge insulating boards (XPS) foamed by blowing agents other than CFC and HCFC.

Low viscosity processing aid and modifier for compounding.

Designation: Thermoplastics ISO 1622-PS,E,105-20.

## Applications

XPS insulation panels with improved environmental compatibility.

Masterbatch carrier.

Modifier for thermoplastic elastomers and rubber (shoe soles, cable extrusion-coating).

## Typical processing data

Extrusion:

- melt temperature 190-220°C

## General information

This product in the natural version complies by composition with the requirements of the main Regulations for plastic materials intended to come into contact with food, including Regulation (EU) No 10/2011 and following amendments.



Property	Test Conditions	Test method	Units	Values
<b>General</b>				
Water absorption	24h - 23°C	ISO 62	%	<0,1
Density	-	ISO 1183	g/cm <sup>3</sup>	1,05
Bulk density	-	ISO 60	g/cm <sup>3</sup>	0,65
<b>Rheological</b>				
Melt flow rate	200°C - 5kg	ISO 1133	g/10'	25
<b>Mechanical</b>				
Tensile strain at break	5 mm/min	ISO 527	%	1
Tensile stress at break	5 mm/min	ISO 527	MPa	30
Flexural strength	2 mm/min	ISO 178	MPa	40
Tensile modulus	1 mm/min	ISO 527	MPa	3150
<b>Thermal</b>				
Coefficient of linear thermal expansion	-	ASTM D 696	10 <sup>-5</sup> /°C	7
Thermal conductivity	-	ISO 8302	W/(K.m)	0,17
Deflection temperature under load (annealed)	1,82 MPa - 120°C/h	ASTM D 648	°C	89
Vicat softening temperature	50 N - 50°C/h	ISO 306/B	°C	101
Vicat softening temperature	10 N - 50°C/h	ISO 306/A	°C	106
<b>Flammability</b>				
Flame behaviour	1,5 mm	UL 94	cl.	HB

