



versalis

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

The third generation of versalis GPPS distinguished for a colour more brilliant and neutral in line with more sophisticated market needs.

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

Low viscosity process-aid and modifier for compounding.

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

Applications

XPS insulation panels with improved environmental compatibility.

Carrier of masterbatch.

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

Typical processing data

Extrusion:

melt temperature 190-220°C

General information

N 3982 is certified UL94 HB "all colors" at 1.5 mm (internal test).

This grade in its natural version complies by composition with the requirements set by the main Regulations for plastic materials intended for food contact (including Commission Regulation (EU) No 10/2011 and subsequent amendments).

Propriety	Test Conditions	Test methods	Units	Values
General				
Water absorption	24h - 23°C	ISO 62	%	<0,1
Density	-	ISO 1183	g/cm ³	1,05
Bulk density	-	ISO 60	g/cm ³	0,65
Rheological				
Melt flow rate	200°C - 5kg	ISO 1133	g/10'	25
Mechanical				
Tensile strain at break	50 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
Thermal				
Coefficient of linear thermal expansion	-	ASTM D 696	10 ⁻⁵ /°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
Flammability				
Flame behaviour	1,5 mm	UL 94	cl.	HB

Please consult the relevant safety data sheet for more detailed information.

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Versalis is available to provide the guaranteed values for each product on demand.