Edistir® N 3782

General Purpose Polystyrene

Versalis S.p.A.

Message:

General purpose polystyrene with good flow and high heat resistance. N 3782 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.
Suggested for direct gassing extrusion of heavy gauge insulating boards (XPS) and in blend with high concentration of clear SBS for improving clarity and stiffness of the sheets.
Designation: Thermoplastics ISO 1622-PS,E,105-06.
Applications
Designed for insulation panels (XPS), clear sheets and thermoformed clear packaging.

General Information	
Features	Foamable property
	Good liquidity
	Heat resistance, high
	Compliance of Food Exposure
Uses	Clear Sheet
	Packaging
	Foamed insulation board
	Sheet
Agency Ratings	Europe 10/1/2011 12:00:00 AM
Processing Method	Extrusion
	Sheet extrusion molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183
Apparent Density	0.65	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.5	g/10 min	ISO 1133
Molding Shrinkage	0.30 - 0.60	%	ISO 294-4
Water Absorption (23°C, 24 hr)	< 0.10	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	80		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3250	MPa	ISO 527-2/1
Tensile Stress (Break)	43.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.6	%	ISO 527-2/5
Flexural Stress [1]	80.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact			ISO 180/1A
-30°C	1.5	kJ/m²	ISO 180/1A
12°C	1.7	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load [2] (1.8 MPa, Annealed)	95.0	°C	ASTM D648
Vicat Softening Temperature			
--	106	°C	ISO 306/A50
--	101	°C	ISO 306/B50
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ISO 8302
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.5E+15	ohms	IEC 60093
Volume Resistivity	> 7.0E+15	ohms·cm	IEC 60093
Dielectric Strength	70	kV/mm	IEC 60243-1
Relative Permittivity (50 Hz)	2.50		IEC 60250
Dissipation Factor (50 Hz)	2.0E-4		IEC 60250
Comparative Tracking Index (Solution A)	400	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.5 mm, ALL)	HB		UL 94
Glow Wire Ignition Temperature (1.6 mm)	650	°C	IEC 60695-2-13
Additional Information	**Nominal Value**		
Designation	Thermoplastics ISO 1622-PS,G,105-06		
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	210 - 240	°C	
NOTE			
1.	2.0 mm/min		
2.	120°C/hr		

Recommended distributors for this material

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