Edistir® N 3982

General Purpose Polystyrene

Versalis S.p.A.

Message:

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).

General Information			
Additive	Processing aid		
Features	Foamable property Fast molding cycle Good liquidity Heat resistance, high Compliance of Food Exposure		
Uses	Foamed insulation board Plastic modification		
Agency Ratings	Europe 10/1/2011 12:00:00 AM		
Processing Method	Injection molding		
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)	25	g/10 min	ISO 1133
Molding Shrinkage	0.30 - 0.60	%	ISO 294-4
Water Absorption (23°C, 24 hr)	< 0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3150	MPa	ISO 527-2/1
Tensile Stress (Break)	30.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.0	%	ISO 527-2/5
Flexural Stress [1]	40.0	MPa	ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load [2] (1.8 MPa, Annealed)	89.0	°C	ASTM D648
Vicat Softening Temperature			
--	89.0	°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
Flammability	Nominal Value		Test Method
Flame Rating (1.5 mm, ALL)	HB		UL 94
Additional Information	Nominal Value		
Designation	Thermoplastics ISO 1622-PS,E,105-20		
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 220	°C	
NOTE			
1.	2.0 mm/min		
2.	120°C/hr		

Recommended distributors for this material

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