

Edistir® N 2982

General Purpose Polystyrene

Versalis S.p.A.

Message:

General purpose polystyrene with very high flow and high heat resistance.

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 for masterbatch.

Modifier for thermoplastic elastomers and rubbers (shoe soles, cable extrusion—coating).

General Information			
Additive	Processing Aid		
Features	Foamable		
	Food Contact Acceptable		
	General Purpose		
	High Flow		
	High Heat Resistance		
Uses	Low Viscosity		
	Foamed Insulation Board		
	Insulation		
	Masterbatch		
	Plastics Modification		
Agency Ratings	EU No 10/2011		
UL File Number	E83071		
Forms	Pellets		
Processing Method	Extrusion		
	Foam Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Apparent Density	0.65	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	25	g/10 min	ISO 1133
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 (1.8 MPa, Annealed)	89.0	°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
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, All Colors)	HB		UL 94
Additional Information	Nominal Value		
Designation	Thermoplastics ISO 1622-PS,E,105-20		
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	2.0 mm/min		

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