

Edistir® N 1782

General Purpose Polystyrene

Versalis S.p.A.

Message:

General purpose polystyrene with good flow and high heat resistance.
Suggested for direct gassing extrusion of heavy gage 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	Food Contact Acceptable		
	General Purpose		
	Good Flow		
	Good Stiffness		
	High Heat Resistance		
	Medium Clarity		
Uses	Blending		
	Clear Sheet		
	General Purpose		
	Insulation		
	Packaging		
Agency Ratings	EU No 10/2011		
UL File Number	E83071		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Sheet Extrusion		
	Thermoforming		
Multi-Point Data	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
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)	7.5	g/10 min	ISO 1133
Molding Shrinkage	0.30 to 0.60	%	Internal Method
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 Strength			ISO 180/1A
-30°C	1.5	kJ/m ²	
23°C	1.7	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (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
Electric Strength	70	kV/mm	IEC 60243-1
Dielectric Constant (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 (1.50 mm, All Colors)	HB		UL 94
Glow Wire Ignition Temperature (1.60 mm)	650	°C	IEC 60695-2-13
Additional Information	Nominal Value		
Designation	Thermoplastics ISO 1622-PS,E,105-06		
Extrusion	Nominal Value	Unit	
Melt Temperature	210 to 240	°C	
NOTE			
1.	2.0 mm/min		

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