

Edistir® N 2380

General Purpose Polystyrene

Versalis S.p.A.

Message:

High molecular weight general purpose polystyrene combining high heat resistance and good mechanical strength.
Suitable for direct gassing extrusion, for biaxially oriented films and sheets, for glass clear sheets and panels.
Also used in injection moulding of medium—thickness wall transparent parts.
Designation: Thermoplastics ISO 1622-PS,G,105-03
Applications
Uses range from foamed packaging trays, clear panels for shower cabins, insulation boards (XPS), OPS for labels and packaging to moulded fridge clear components, Petri dishes, technical parts.

General Information	
Features	High molecular weight
	Good strength
	Heat resistance, high
	Compliance of Food Exposure
	General
Uses	Bi-axially Oriented Film
	Clear Sheet
	Engineering accessories
	Sheet
	Transparent or Translucent Accessories
	Medical/nursing supplies
	Reinforced panel
	Bracket tray
Agency Ratings	Europe No 10/2011
UL File Number	E83071
Appearance	Clear/transparent
Forms	Particle
Processing Method	Film extrusion
	Extrusion
	Sheet extrusion molding
	Thermoforming
	Profile extrusion molding
	Injection molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)

Specific Heat vs. Temperature (ISO 11403-2)

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)	2.0	g/10 min	ISO 1133
Molding Shrinkage	0.30 - 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	3350	MPa	ISO 527-2/1
Tensile Stress (Break)	49.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Flexural Stress ¹	91.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	1.7	kJ/m ²	ISO 180/1A
23°C	1.9	kJ/m ²	ISO 180/1A
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
Dielectric 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)	425	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,G,105-03		
Injection	Nominal Value	Unit	

Processing (Melt) Temp	220 - 270	°C
Mold Temperature	20.0 - 60.0	°C
Injection instructions		
Predrying normally not required		
Extrusion	Nominal Value	Unit
Melt Temperature	210 - 240	°C
NOTE		
1.	2.0 mm/min	

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