

Edistir® N 2560

General Purpose Polystyrene

Versalis S.p.A.

Message:

High molecular weight general purpose polystyrene with good mechanical strength and good thermal resistance.
It is recommended for in—line forming of disposable packaging, for sheet extrusion in blend with conventional or clear high impact PS and for injection moulding of complex items requiring good toughness and improved elasticity.
Designation: Thermoplastics ISO 1622-PS,G,095-03
Applications
Suitable for thermoformed food packaging articles as drink and dairy cups, plates, trays and for injection moulded cd boxes, domestic appliances, stationery, cutlery, housewares.

General Information	
Features	High elasticity
	High molecular weight
	Good strength
	Heat resistance, high
	Good toughness
	Compliance of Food Exposure
	General
	Disposable
Uses	Packaging
	Cup
	Electrical appliances
	Mixing
	Household goods
	Media packaging
	Sheet
	Food packaging
	General
	Stationery
	Disposable tableware
	Disposable wine set
	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

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)	3.8	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	3250	MPa	ISO 527-2/1
Tensile Stress (Break)	40.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Stress ¹	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	1.6	kJ/m ²	ISO 180/1A
23°C	1.8	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	84.0	°C	ASTM D648
Vicat Softening Temperature			
--	97.0	°C	ISO 306/A50
--	91.0	°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)	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,G,095-03		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 250	°C	
Mold Temperature	10.0 - 50.0	°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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