



versalis

info.styrenics@versalis.eni.com

Technical Data Sheet

EDISTIR®

N 2560

Polystyrene

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.

Typical processing data

- Extrusion: • melt temperature 210-240°C
Injection moulding: • predrying normally not required
• melt temperature 200-250°C
• mould temperature 10-50°C

General information

N 2560 is certified UL94 HB "all colors" at 1.5 mm (UL file E83071).

This grade in its natural version complies by composition with the requirements set by the main Regulations for plastic materials intended for food contact (including Commission Regulation (EU) No 10/2011 and subsequent amendments).

Properties	Test conditions	Test methods	Units	Values
General				
Density		ISO 1183	g/cm ³	1.05
Bulk density		ISO 60	g/cm ³	0.65
Water absorption	24 h - 23°C	ISO 62	%	<0.1
Rheological				
Melt flow rate	200°C - 5 kg	ISO 1133	g/10 min	3.8
Mechanical				
Tensile stress at yield	5 mm/min	ISO 527	MPa	-
Tensile stress at break	5 mm/min	ISO 527	MPa	40
Tensile strain at break	5 mm/min	ISO 527	%	2
Tensile modulus	1 mm/min	ISO 527	MPa	3250
Flexural strength	2 mm/min	ISO 178	MPa	75
Izod impact strength, notched	+23°C - thickness 3.2 mm	ISO 180/4A	J/m	-
	+23°C - thickness 4 mm	ISO 180/1A	kJ/m ²	1.8
	-30°C - thickness 4 mm	ISO 180/1A	kJ/m ²	1.6
Rockwell hardness	L/M scale	ISO 2039/2	-	M80
Thermal				
Vicat softening temperature	10 N - 50°C/h	ISO 306/A	°C	97
	50 N - 50°C/h	ISO 306/B	°C	91
Deflection temperature under load (annealed)	1.8 MPa - 120°C/h	ASTM D 648	°C	84
Coefficient of linear thermal expansion		ASTM D 696	10 ⁻⁵ /°C	7
Thermal conductivity		ISO 8302	W/(K·m)	0.17
Moulding shrinkage		internal method	%	0.3 - 0.6
Flammability				
Flame behaviour	thickness 1.5 mm	UL 94	class	HB
Glow wire test (GWT)	thickness 1.6 mm	IEC 60695-2-1	°C	650
Electrical				
Surface resistivity		IEC 60093	10 ¹⁵ ohm	>1.5
Volume resistivity		IEC 60093	10 ¹⁵ ohm·cm	>7
Comparative tracking index (CTI)	solution A	IEC 60112	-	400
Dielectric strength		IEC 60243	kV/mm	70
Dielectric constant (relative permittivity)	50 Hz	IEC 60250	-	2.5
Dissipation factor	50 Hz	IEC 60250	-	0.0002

Issue 01/12

Please consult the relevant safety data sheet for more detailed information.

The information and data presented herein are to the best of our knowledge true and accurate but no warranty or guarantee, expressed or implied, is made nor is any liability accepted.

versalis is available to provide the guaranteed values for each product on demand.