

Edistir® N 3560

General Purpose Polystyrene

Versalis S.p.A.

Message:

High molecular weight general purpose polystyrene with good mechanical strength and good thermal resistance. N 3560 belongs to Edistir® GPPS third generation.

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.

Thanks to N 3560, injected items will be more brilliant and neutral coloured, in line with more sophisticated market needs.

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, internal fridge items, domestic appliances, stationery, cutlery, housewares.

General Information			
Features	High molecular weight		
	Heat resistance, high		
	Compliance of Food Exposure		
Uses	Packaging		
	Cup		
	Electrical appliances		
	Household goods		
	Sheet		
	Food packaging		
Agency Ratings	Europe 10/1/2011 12:00:00 AM		
Processing Method	Extrusion		
	Sheet extrusion molding		
	Injection molding		
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	%	ISO 294-4
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
12°C	1.8	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ² (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
Relative Permittivity (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 (1.5 mm, ALL)	HB		UL 94
Glow Wire Ignition Temperature (1.6 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 - 260	°C	
Mold Temperature	10 - 50	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	210 - 240	°C	
NOTE			
1.	2.0 mm/min		
2.	120°C/hr		

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