

Edistir® N 3910

General Purpose Polystyrene

Versalis S.p.A.

Message:

Very easy flow general purpose polystyrene. N 3910 belongs to Edistir® GPPS third generation.

Used for injection of thin-wall, multi-cavity, very fast-cycle mouldings and for sheet extrusion in glossy capping of HIPS and in blend with HIPS or clear SBS.

Thanks to N 3910, injected items will be more brilliant and neutral coloured in line with more sophisticated market needs.

Designation: Thermoplastics ISO 1622-PS,G,085-20.

Applications

Typical uses include cups, packaging containers for foods and cosmetics, toys, medical articles.

Thank to its high flow, it is particularly suitable as carrier for master batches.

General Information			
Features	Fast molding cycle		
	High liquidity		
	Compliance of Food Exposure		
Uses	Packaging		
	Thin wall parts		
	Cup		
	Mixing		
	Container		
	Food container		
	Toys		
	Medical/nursing supplies		
Agency Ratings		Europe 10/1/2011 12:00:00 AM	
Processing Method		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)	27	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	3200	MPa	ISO 527-2/1
Tensile Stress (Break)	37.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.3	%	ISO 527-2/5
Flexural Stress ¹	67.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	1.5	kJ/m ²	ISO 180/1A
12°C	1.7	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ² (1.8 MPa, Annealed)	82.0	°C	ASTM D648
Vicat Softening Temperature			
--	89.0	°C	ISO 306/A50
--	83.0	°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)	375	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,085-20		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 250	°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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