

Edistir® N 1910

General Purpose Polystyrene

Versalis S.p.A.

Message:

Very easy flow general purpose polystyrene.
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.
Designation: Thermoplastics ISO 1622-PS,G,085-20
Applications
Typical uses include cups, packaging containers for foods and cosmetics, toys, medical articles.
Thanks 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
	General
Uses	Cosmetic Packaging
	Packaging
	Thin wall parts
	Cup
	Masterbatch
	Sheet
	Container
	Food packaging
	Food container
	General
	Toys
	Medical/nursing supplies
Agency Ratings	Europe No 10/2011
UL File Number	E83071
Appearance	Clear/transparent
Forms	Particle
Processing Method	Extrusion
	Sheet 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 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)	27	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	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
23°C	1.7	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (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
Dielectric Constant (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 (1.50 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,085-20		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 250	°C	

Mold Temperature	10.0 - 50.0	°C
Injection instructions		
Drying not normally required		
Extrusion	Nominal Value	Unit
Melt Temperature	210 - 240	°C
NOTE		
1.	2.0 mm/min	

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