

Polimeri Europa Edistir ICE S 800/N Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Very high environmental stress cracking resistant (VH ESCR) modified HIPS. ICE S 800/N exhibits high toughness and excellent chemical resistance to oils, fats and chemical agents and in particular to cyclopentane. Designation: Thermoplastics ISO 2897-PS-I,G,093-06-07-12 Applications: Designed for inner liners and frames for refrigerators where cyclopentane is used as blowing agent for insulating polyurethane foams. ICE S 800/N significantly improves the wall thickness distribution in thermoforming and allows to optimize the thickness of the original extruded sheet. ICE S 800/N satisfies the norm UL94 HB at 1.5 mm (internal test). 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 the EEC Directive 90/128 and subsequent amendments). ICE S 800/N is supplied in round pellets Information provided by Polimeri Europa S800/N

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Edistir-ICE-S-800N-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ISO 60
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	24 hours - 23°C; ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	Internal Method
Melt Flow	4.0 g/10 min	4.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	55	55	ISO 2039/2
Tensile Strength at Break	24.5 MPa	3550 psi	50 mm/min; ISO 527
Tensile Strength, Yield	17.5 MPa	2540 psi	50 mm/min; ISO 527
Elongation at Break	70 %	70 %	50 mm/min; ISO 527
Tensile Modulus	1.40 GPa	203 ksi	1 mm/min; ISO 527
Flexural Strength	32.5 MPa	4710 psi	2 mm/min; ISO 178
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ISO 180/4A
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	

Izod Impact Notched (ISO)		English		ISO 180/1A
Mechanical Properties	Metric			Comments
	@Thickness 4.00 mm, Temperature -30.0 °C	@Thickness 0.157 in, Temperature -22.0 °F		
	8.50 kJ/m ²	4.04 ft-lb/in ²		
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F		ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D 696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	ISO 8302
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	120°C/h; ASTM D 648
Vicat Softening Point	91.0 °C	196 °F	50 N - 50°C/h; ISO 306/B
	100 °C	212 °F	10 N - 50°C/h; ISO 306/A
Flammability, UL94	HB	HB	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	650 °C	1200 °F	IEC 60695-2-1
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.00e+15 ohm-cm	7.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.50e+15 ohm	1.50e+15 ohm	IEC 60093
Dielectric Constant	2.5	2.5	IEC 60250
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	65.0 kV/mm	1650 kV/in	IEC 60243
Dissipation Factor	0.00030	0.00030	IEC 60250
	@Frequency 50 Hz	@Frequency 50 Hz	
Comparative Tracking Index	500 V	500 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 °C	410 - 464 °F	Extrusion
	210 - 260 °C	410 - 500 °F	Injection Molding
Mold Temperature	20.0 - 60.0 °C	68.0 - 140 °F	Injection Molding

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China