

SURLYN™ PC-2000

lonomer

Product Description	SURLYN™ PC-2000 is an ionomer of ethylene acid copolymer. The resin can be processed via injection molding equipment designed to process polyethylene and ethylene copolymer type resins.				
Restrictions					
Material Status	Commercial: Active				
Typical Characteristics					
Composition	Sodium Ionomer				
Typical Properties					
Physical	Nominal Values	Test Me	ethod(s)		
*Density ()	0.97 g/cm³	ASTM D792	ISO 1183		
*Melt Flow Rate (190°C/2.16kg)	4.5 g/10 min	ASTM D1238	ISO 1133		
Thermal	Nominal Values Test Method(s)				
*Melting Point (DSC)	84°C (183.2°F)	ASTM D3417	ISO 3146		
Vicat Softening Point ()	53°C (127.4°F)	ASTM D1525	ISO 306		
Processing Information					
*Maximum Processing Temperature	285 °C (545 °F)				
General Processing Information	SURLYN™ PC-2000 is normally processed at melt temperatures ranging from 160°-260°C (320°-500°F) Actual processing temperatures will usually be determined by either the specific equipment.				
	determined by either the spec	ific equipment.	-		
	Materials of construction used resistant. Stainless steels of t quality chrome or nickel platin stainless steel is satisfactory, of 600°C (1112°F) to avoid hyd such as 4140 are borderline ir While stainless steels can pro severe purging difficulties hav satisfactory, but experiments adhesion to acid based polym been deteriorating due to envi has not always been adequate the best combination for corre	d in the processing of this resin s he types 316, 15-5PH, and 17-4PH ng, and in particular duplex chron but needs to be tempered at a mi frogen-assisted stress corrosion of performance. Carbon steels are ovide adequate corrosion protection we been encountered. Nickel platin have shown that chrome surfaces hers. In recent years, the quality of ironmental pressures, and the con e. Chrome over top of stainless st posion protection and ease of purg	I are excellent, as is ne plating. Type 410 nimum temperature cracking. Alloy steels not satisfactory. on, in some cases ng has been s have the least f chrome plating has rrosion protection eel seems to provide jing.		
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FDA Status Information	SURLYN™ PC-2000 complies with Food and Drug Administration Regulation 21 CFR 177.1330(a) Ionomeric resins, subject to the limitations and requirements therein. This Regulation describes polymers that may be used in contact with food, subject to the finished food-contact article meeting the extractive limitations under the intended conditions of use, as shown in paragraph (c) of the Regulation.		
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Regulatory Information	For information on regulatory compliance outside of the U.S.A., consult your local Dow representative.		
Safety & Handling	For information on appropriate Handling & Storage of this polymeric resin, please refer to the material Safety Data Sheet.		
	A Product Safety Bulletin, Material Safety Data Sheet, and/or more detailed information on extrusion processing and/or compounding of this polymeric resin for specific applications are available from your Dow representative.		

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