



Dow SURLYN™ Ionomers have been used for many years in packaging applications, offering high clarity, high gloss, oil and grease resistance, puncture resistance, scratch resistance, excellent hot tack strength and superb thermoformability. In consumer applications, such as cosmetic containers, SURLYN™ offers outstanding clarity, even in thick sections, and excellent chemical resistance. In industrial applications SURLYN™ offers outstanding impact resistance and scratch resistance making it the perfect material for golf ball skins and bowling pin covers.

SURLYN™ Industrial Grades

GRADE	ION TYPE	MELT FLOW INDEX, g/10 min.	SPECIFIC GRAVITY	MELTING POINT, °C	VICAT, °C	HARDNESS, Shore D	CLARITY, % Haze at 0.25" Thick
7940	Lithium	2.6	0.94	91	63	68	4
8020	Sodium	1.0	0.95	82	61	56	19
8120	Sodium	0.9	0.94	78	51	39	6.3
8150	Sodium	4.5	0.97	84	53	65	1.3
8320	Sodium	1.0	0.95	70	47	36	26.6
8660	Sodium	10.0	0.95	110	71	62	11
8920	Sodium	0.9	0.95	88	58	66	4
8940	Sodium	2.8	0.95	94	63	65	5
8945	Sodium	4.0	0.96	88	71	65	5
9020	Zinc	1.0	0.96	81	57	55	7
9120	Zinc	1.3	0.97	86	60	66	2.5
9150	Zinc	4.5	0.97	82	62	63	3.2
9320W	Zinc	0.7	0.96	70	48	40	12.3
9520	Zinc	1.1	0.95	96	74	60	26
9650	Zinc	5.0	0.95	92	71	63	27
9721	Zinc	1.0	0.96	92	71	61	12
9910	Zinc	0.7	0.97	86	62	64	6
9945	Zinc	4.0	0.97	92	60	61	6
9950	Zinc	5.5	0.96	92	69	62	18

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SURLYN™ Cosmetic Packaging Grades

GRADE	ION TYPE	MELT FLOW INDEX, g/10 min.	SPECIFIC GRAVITY	MELTING POINT, °C	VICAT, °C	USE
PC2000	Sodium	4.5	0.970	84	53	Thick Parts
PC2200	Sodium	12.0	0.970	83	51	Thinner Parts
PC350	Sodium	4.5	0.960	88	71	Lower Cost Parts

SURLYN™ Packaging Grades

GRADE	ION TYPE	MELT FLOW INDEX, g/10 min.	CLARITY	MELTING POINT, °C	VICAT, °C	SEAL INITIATION TEMPERATURE, °C	HOT TACK	FOIL / NYLON ADHESION	OIL BARRIER
1601 / 2601	Sodium	1.3	Very High	98	74	Low	Very High	X	High
1605	Sodium	2.8	Very High	95	64	Very Low	Very High	X	Very High
1650	Zinc	1.6	High	97	73	Low	High	High	Medium
1652	Zinc	5.2	High	100	79	Medium-Low	Medium-High	High	Medium
1702	Zinc	14	Very High	93	65	Very Low	Very High	Very High	Medium
1705-1	Zinc	5.5	Medium	95	65	Medium	Very High	High	Medium
1706	Zinc	0.7	Very High	90	65	Very Low	Very High	X	High
1707	Sodium	0.9	Very High	92	58	Very Low	Very High	X	Very High
1802	Sodium	4.3	Very High	99	75	Low	Very High	X	Very High
1825	Zinc	1.4	Medium	97	73	Medium-Low	High	High	Medium
1857	Zinc	4	Very High	87	56	Very Low	Very High	Very High	Medium
1901	Sodium	1.3	Very High	95	70	Low	Very High	X	Medium

Common Applications



Impact Modification of Nylon



Golf Ball Covers



Bowling Pin Covers



Cosmetic Containers



Pouches



Protective Layer for Decking Boards



Sachet Packets



Flexible Packaging