

DuPont™ Surlyn®

RESINS

Typical Properties for Selected Industrial Grades of Surlyn®

(for Metric Units, see next page)

Surlyn® Grade	Melt Index 2160g (g/10 min.)	Vicat Soft'ng Point (°F)	Melt Point (°F)	Tensile ¹ Strength (Break, 73°F) (kpsi)	Elong ation at Break (73°F) (%)	Flex Mod. (73°F) (kpsi)	Hard-ness (Shore D)	Notched Izod (ft-lb/in)	Tens'l Impact (73°F) (ft-lb/in)	Tens'l Impact (-40°F) (ft-lb/in ²)	Clarity (% Haze, 0.25 in. Thick)	Spec. Grav.
7930	1.8	144	192 ^a	3.8	290	67	68	NB	160	140	9	0.94
7940	2.6	145	196 ^a	3.8	285	61	68	NB	220	250	4	0.94
8020	1.0	142	180 ^b	4.5	530	14	56	NB	630	415	19	0.95
8120	0.9	124	172 ^a	4.2	509	7.1	39	NB	593	-	6.3	0.94
8140	2.6	136	189 ^a	5.3	325	75	65	NB	483	-	1.7	0.96
8150	4.5	127	183 ^a	4.5	320	71	65	NB	427	-	1.3	0.97
8320	1.0	117	158 ^a	2.7	770	4.4	36	NB	606	-	26.6	0.95
8527	1.0	163	199 ^b	4.2	450	32	60	11.4	550	445	6	0.94
8660	10	160	203 ^b	3.4	470	34	62	16	345	270	11	0.95
8920	0.9	136	190 ^a	5.4	350	55	66	11.9	410	345	4	0.95
8940	2.8	145	201 ^a	4.8	470	51	65	19.2	485	360	5	0.95
8945	4.0	160	190 ^a	3.2	325	65	65	NB	433	-	5	0.96
9020	1.0	135	178 ^b	3.8	510	14	55	NB	610	565	7	0.96
9120	1.3	140	187 ^a	5.3	345	62	66	NB	553	-	2.5	0.97
9150	4.5	144	180 ^a	4.1	335	52	63	NB	298	-	3.2	0.97
9320W	0.7	118	158 ^a	2.3	525	4.3	40	NB	-	-	12.3	0.96
9520	1.1	165	205 ^b	3.7	410	38	60	10.1	565	490	26	0.95
9650	5.0	160	198 ^b	3.2	410	32	63	14.5	460	425	27	0.95
9721	1.0	160	198 ^b	4.4	440	36	61	NB	600	495	12	0.96
9730	1.6	162	194 ^b	4.1	460	30	63	NB	590	425	15	0.94
9910	0.7	144	187 ^a	3.6	290	48	64	6.8	485	480	6	0.97
9945	4.0	140	189 ^a	3.5	340	47	61	NB	382	-	6.0	0.97
9950	5.5	157	189 ^b	4.1	490	37	62	NB	485	315	18	0.96
9970	14	142	190 ^b	3.2	460	28	62	NB	360	305	7	0.94

(1) Type IV bars, compression molded, cross speed 2 in./min. (5.0 cm/min.)

(a) DSC (differential scanning calorimetry)

(b) DTA (differential thermal analysis)

NB = No Break

NOTES: Physical properties reported here are intended primarily to facilitate comparisons among Surlyn® resins. Standard testing methods such as ISO and ASTM often allow alternative methods of sample preparation and data development. Therefore, data from multiple suppliers may not be directly comparable. For DuPont measurement conditions or additional data, please contact your local DuPont office.



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Typical Properties for Selected Grades of Surlyn® -- Metric Units

Surlyn® Grade	Melt Index 2160g (g/10 min.)	Vicat Soft'ng Point (°C)	Melt Point (°C)	Tensile ¹ Strength (Break, 73°F) (MPa)	Elongation at Break (73°F) (%)	Flex Mod. (73°F) (MPa)	Hardness (Shore D)	Notched Izod (Jm)	Tens'l Impact (73°F) (10 ² kJ/m ²)	Tens'l Impact (-40°F) (10 ² kJ/m ²)	Clarity (% Haze, 6.4 mm Thick)	Spec. Grav.
7930	1.8	62	89 ^a	26.2	290	460	68	NB	3.4	3	9	0.94
7940	2.6	63	91 ^a	26.2	285	420	68	NB	4.6	5.3	4	0.94
8020	1.0	61	82 ^b	31	530	100	56	NB	13.2	8.7	19	0.95
8120	0.9	51	78 ^a	28.8	660	49	39	NB	4.9	-	6.3	0.94
8140	2.6	58	87 ^a	36.5	325	517	65	NB	4.8	-	1.7	0.96
8150	4.5	53	84 ^a	31	320	489	65	NB	4.3	-	1.3	0.97
8320	1.0	47	70 ^a	18.6	555	30.3	36	NB	4.5	-	26.6	0.95
8527	1.0	73	93 ^b	29	450	220	60	610	11.6	9.3	6	0.94
8660	10	71	95 ^b	23.4	470	230	62	855	7.3	5.6	11	0.95
8920	0.9	58	88 ^a	37.2	350	380	66	635	8.6	7.3	4	0.95
8940	2.8	63	94 ^a	33	470	350	65	1025	10.2	7.6	5	0.95
8945	4.0	71	88 ^a	22	325	448	65	NB	4.3	-	5	0.96
9020	1.0	57	81 ^b	26.2	510	100	55	NB	12.8	11.9	7	0.96
9120	1.3	60	86 ^a	36.5	345	427	66	NB	5.5	-	2.5	0.97
9150	4.5	57	82 ^a	28.3	335	358	63	NB	2.9	-	3.2	0.97
9320W	0.7	48	70 ^a	15.9	525	29.6	40	NB	-	-	12.3	0.96
9520	1.1	74	96 ^b	25.5	410	260	60	540	11.9	10.3	26	0.95
9650	5.0	71	92 ^b	22.1	410	220	63	775	9.7	9	27	0.95
9721	1.0	71	92 ^b	30.3	440	250	61	NB	12.6	10.4	12	0.96
9730	1.6	73	90 ^b	28.3	460	210	63	NB	12.4	9	15	0.94
9910	0.7	62	86 ^a	24.8	290	330	64	365	10.2	10.1	6	0.97
9945	4.0	60	87 ^a	24.1	340	324	61	NB	3.8	-	6.0	0.97
9950	5.5	66	87 ^b	28.3	490	250	62	NB	10.2	6.6	18	0.96
9970	14	61	88 ^b	22.1	460	190	62	NB	7.6	6.4	7	0.94

(1) Type IV bars, compression molded, cross speed 2 in./min. (5.0 cm/min.)

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Doc. Ref. SUR050916_1, v.1 (9/05) (Replaces H-78675-2.)*



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