

BIOPLASTICS COMPANY

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GENUINE BIOTHANE® PRODUCT DATA

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Properties of genuine BioThane® test results were compiled at BioPlastics Company.

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All genuine BioThane® products are made in the U.S.A.

the protected webbing **genuine BioThane® usa**



PROPERTIES OF GENUINE BIOTHANE®

INCLUDES WEBBING & POLYMER COATING SEC 1 OF 2

COATING CLASSES GENUINE BIOTHANE®	POLYMER	WEBBING	APPEARANCE	ABRASION RESISTANCE	ULTRA VIOLET RESISTANCE	FLEXIBILITY B10 WEB POUNDS FORCE TO BEND 4" SAMPLE @ 90
GOLD 100, 300	TPU	PE	GLOSSY	8	4	2.79
GRANITE 230	TPU	PE	MATTE	7	4	2.89
DIAMOND 400	TPU	PE	GLOSSY	9	3	4.26
ALPHA 500	PVC	PE	GLOSSY	6	3	3.25
BETA® 520	PVC	PE	MATTE	4	4	2.04
BETA® 550	PVC	PE	MATTE	6	4	2.71
BETA® 560	PVC	PE	MATTE	3	4	1.00
SLATE 601	SILICONE	PE	MATTE	9	5	2.82
SLATE 651	SILICONE/TPU	PE	MATTE	9	5	3.00
FOAM 951	TPU	PE	SUEDE	3	3	0.92
FOAM 961	TPU	PE	MATTE	4	3	1.24

ASTM TEST METHOD

↑ G155 D747 - 02
1=POOR
10=EXCELLENT

All belting data is based on one inch wide standard black belting, thickness range of .100" +/- .005".

PROPERTIES OF GENUINE BIOTHANE®

INCLUDES WEBBING & POLYMER COATING SEC 2 OF 2

TENSILE, BUCKLE PULL AND ADHESION DATA REFLECT MINIMUM VALUES

COATING CLASSES GENUINE BIOTHANE®	TENSILE BREAK FORCE POUNDS			BUCKLE PULL BREAK FORCE POUNDS			ADHESION POUNDS PER INCH		
	B05 WEB	B10 WEB	B30 WEB	B05 WEB	B10 WEB	B30 WEB	B05 WEB	B10 WEB	B30 WEB
GOLD 100, 300	500	1000	3000	40	200	700	15	15	15
GRANITE 230	400	1000	3000	40	200	700	12	20	17
DIAMOND 400	500	1000	3000	40	200	700	15	15	15
ALPHA 500	400	1000	3000	40	200	700	15	10	N/A
BETA® 520	400	1000	3000	40	200	700	10	10	10
BETA® 550	400	1000	3000	40	200	700	10	10	10
BETA® 560	400	1000	3000	40	200	700	10	10	N/A
SLATE 601	400	1000	3000	40	200	700	20	20	20
SLATE 651	400	1000	3000	40	200	700	20	20	20
FOAM 951	400	1000	3000	40	200	700	5	5	N/A
FOAM 961	400	1000	3000	40	200	700	5	5	N/A
ASTM TEST METHOD	D6775-02	D6775-02	D6775-02	D4831	D4831	D4831	D903-98	D903-98	D903-98

All belting data is based on one inch wide standard black belting, thickness range of .100" +/- .005".

PROPERTIES OF POLYMER COATINGS NO WEBBING

POLYMER TESTING CONDUCTED BY A2LA ACCREDITED LABORATORIES SEC 1 OF 3

COATING CLASSES <small>GENUINE BIOTHRANE®</small>		INFRARED REFLECTANCE (BLACK)	MODULUS OF RIGIDITY AT -35°C	CLASH-BERG STIFFNESS @ 45k PSI	TEAR RESISTANCE GRAVES lbs/inch	COEFFICIENT OF FRICTION	LOW TEMP BRITTLENESS	GLASS TRANSITION TEMP	VICAT SOFTENING
		PSI	°C		STATIC KINETIC	°C °F	°C	°C	
GOLD 100, 300		5870	-52.6	501	2.29 2.00	<-70 <-94	-45.0	77.2	
GRANITE 230	PASS	9480	-51.3	411	1.65 1.43	-56 -68	-47.5	65.7	
DIAMOND 400		5090	-52.9	504	1.12 0.91	<-70 <-94	-47.3	75.8	
ALPHA 500		52900	-32.8	359	1.23 1.10	-38 -36	-67.9	52.2	
BETA® 520		6070	-53.9	180	1.59 1.55	-49 -56	-55.5	55.3	
BETA® 550		40600	-36.2	309	1.24 1.15	-39 -39	-25.8	56.5	
BETA® 560		762	-64.5	60	2.62 2.50	-56 -68	-58.0	N/A	
SLATE 601		3850	-58.0	190	1.00 0.82	<-70 <-94	-62.3	81.7	
SLATE 651	PASS	6020	-54.6	359	1.03 0.77	<-70 <-94	-62.0	78.2	
FOAM 951	PASS	697	-58.8	125	2.17 1.93	N/A	N/A	N/A	
FOAM 961		7570	-54.2	326	1.72 1.50	N/A	N/A	N/A	
ASTM TEST METHOD	AATCC EVAL. PROCEDURE 9	D1043	D1043	D624	D1894-95	D746	E1356	D1525-00	

PROPERTIES OF POLYMER COATINGS NO WEBBING

POLYMER TESTING CONDUCTED BY A2LA ACCREDITED LABORATORIES SEC 2 OF 3
 IMMERSION RESULTS - WEIGHT (W) & VOLUME (V) PERCENT CHANGE AFTER 72 HOURS @ 23°C

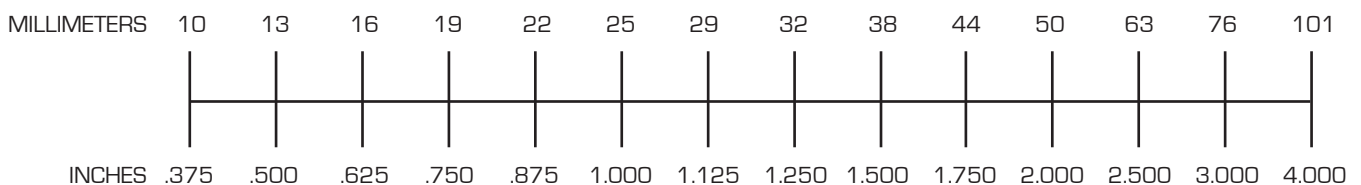
COATING CLASSES GENUINE BIOTHANE®	ACETIC ACID 20%	UNLEADED GAS	ASTM OIL #1	SODIUM HYDROXIDE	SEA WATER	BLEACH
	W V	W V	W V	W V	W V	W V
GOLD 100, 300	4.0 4.1	28.7 40.4	-0.1 -0.1	0.8 0.8	1.0 1.0	0.8 0.8
GRANITE 230	9.6 10.2	33.3 47.5	-0.1 -0.2	0.7 0.6	0.9 0.9	0.8 0.8
DIAMOND 400	3.8 4.0	27.5 38.5	-0.1 -0.1	0.8 0.8	1.0 0.9	0.9 0.8
ALPHA 500	N/A	N/A	N/A	N/A	N/A	N/A
BETA® 520	20.1 24.9	-13.3 -9.7	-2.5 -3.3	0.0 -0.1	0.2 0.2	0.2 0.2
BETA® 550	0.4 0.4	-1.9 6.9	-0.6 -0.7	0.0 0.0	0.1 0.1	0.2 0.1
BETA® 560	1.3 1.3	-44.9 -45.6	-6.4 -7.1	0.0 -0.1	0.2 0.2	0.1 0.2
SLATE 601	2.1 2.5	51.3 79.5	-0.3 0.4	0.1 0.3	0.4 0.4	0.3 0.7
SLATE 651	3.4 3.6	40.0 59.6	-0.1 -0.1	0.6 0.6	0.7 0.7	0.7 0.8
FOAM 951	18.9 7.0	18.2 13.5	-1.6 -2.2	1.6 1.6	3.9 1.7	2.1 2.0
FOAM 961	21.1 18.3	51.9 55.3	-0.1 -0.2	1.6 1.4	2.6 2.1	1.6 1.5
ASTM TEST METHOD	D471	D471	D471	D471	D471	D471

PROPERTIES OF POLYMER COATINGS NO WEBBING

POLYMER TESTING CONDUCTED BY A2LA ACCREDITED LABORATORIES SEC 3 OF 3

COATING CLASSES <small>GENUINE BIOTHANE®</small>	TENSILE	MODULUS @ 100%	MODULUS @ 300%	ELONGATION
	PSI	PSI	PSI	%
GOLD 100, 300	3660	846	1270	730
GRANITE 230	2940	717	1090	680
DIAMOND 400	3530	818	1220	740
ALPHA 500	2170	1110	1850	410
BETA® 520	1430	725	1280	270
BETA® 550	2160	1060	2010	340
BETA® 560	635	370	450	200
SLATE 601	1300	547	853	470
SLATE 651	2580	691	1060	606
FOAM 951	519	217	311	550
FOAM 961	2110	589	907	580
ASTM TEST METHOD	D412	D412	D412	D412



WIDTH OPTIONS












NOTE: NOT ALL WIDTHS ARE AVAILABLE IN ALL PROFILES AND COATINGS.
ALL WIDTHS HAVE TOLERANCES. PLEASE CALL FOR EXACT DIMENSIONS.

PROFILES & WEBBING





LIGHTWEIGHT WEBBING 400 POUND BREAK STRENGTH* WEBBING CODE B05

		PART NO.	THICKNESS
	ULTRA THIN	B05UT	.030" - .040" / .76mm - 1.02mm
	SUPER FLEX	B05SF	.055" - .065" / 1.40mm - 1.65mm

MIDDLEWEIGHT WEBBING 1000 POUND BREAK STRENGTH* WEBBING CODE B10

		PART NO.	THICKNESS
	SUPER FLEX	B10SF	.055" - .065" / 1.40mm - 1.65mm
	HIGH FLEX	B10HF	.075" - .085" / 1.91mm - 2.16mm
	STANDARD	B10ST	.095" - .105" / 2.41mm - 2.67mm
	GROOVED	B10G2	.095" - .105" / 2.41mm - 2.67mm
	BEADED	B10SB	.150" - .170" / 3.81mm - 4.32mm
	EX THICK GROOVED	B10X2	.125" - .135" / 3.17mm - 3.43mm
	SUPER HEAVY	B10SH	.140" - .160" / 3.56mm - 4.06mm
	SUPER HEAVY GROOVED	B10S2	.140" - .160" / 3.56mm - 4.06mm
	SUPER GRIP	B10QT	nominal .250" / nominal 6.35mm
	QUARTER THICK	B10QT	nominal .250" / nominal 6.35mm

HEAVYWEIGHT WEBBING 3000 POUND BREAK STRENGTH* WEBBING CODE B30

		PART NO.	THICKNESS
	SUPER HEAVY	B30SH	.130" - .160" / 3.30mm - 4.06mm
	SUPER HEAVY GROOVED	B30S2	.130" - .160" / 3.30mm - 4.06mm
	SUPER THICK	B30TK	.175" - .195" / 4.45mm - 4.95mm
	SUPER THICK GROOVED	B30T2	.175" - .195" / 4.45mm - 4.95mm

*Break strength is shown in pounds per inch of width. All profiles displayed may not be available in your desired width.

GENUINE BIOTHANE® COLORS

ALL COLORS SHOWN ARE DIGITAL REPRESENTATIONS AND MAY VARY FROM THE ACTUAL COATING COLOR.
CALL TODAY FOR A SAMPLE 800 487 2358



GOLD 100^s DIAMOND 400^s OPAQUE COLORS



BL101 | BL401



WH101



SI101



RD101



WN101



BR104



VI101



BU103



BU101



YE101



TN102



GN103



GN101



TE102



GY101

GOLD 300^s DIAMOND 400^s TRANSLUCENT COLORS



PK311



GN318



GN314



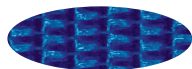
YE317 | YE417



OR315 | OR415



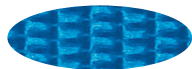
RD318



BU318



TU313



BU319

GRANITE 230^s COLORS



WH231



TN232



BR236



BR234



BL231

MILITARY COLORS



DT231



CB231



FG231

BETA® 520^s 560^s COLORS



VI521 | VI561



RD522 | RD562



PK521 | PK561



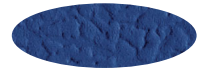
OR522 | OR562



GN528 | GN568



GN521



BU522 | BU562



PU522



PK522



BU52B



YE521



YE527



GN529

BETA® 520^s 550^s 560^s COLORS



WH521 | WH561



BR521 | BR561



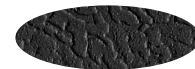
BR522



BR523 | BR553 | BR563



BR525 | BR555 | BR565



BL520 | BL550 | BL561