

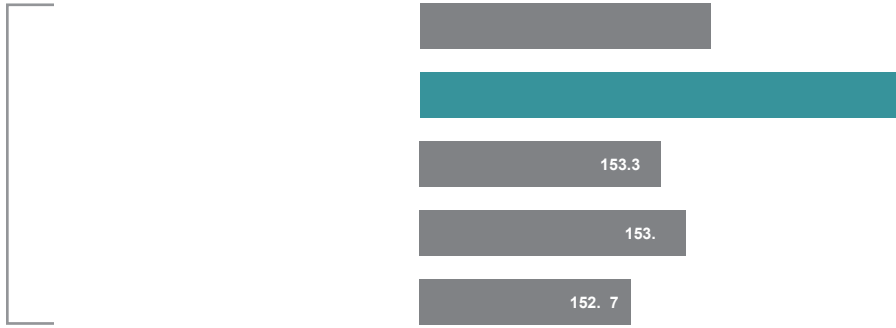
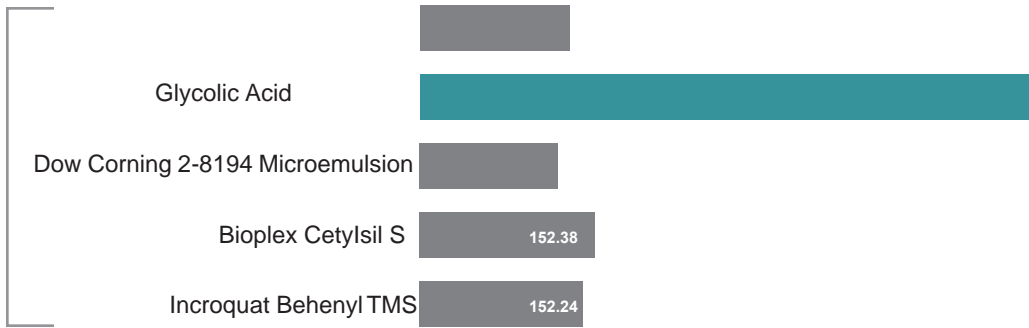






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**Figure 5. Results from tensile strength experiment**

	Healthy Control (average of 23 samples)	std dev	Healthy 5 min Stearyl Alcohol (control)	std dev
diameter (micrometers)	73.90	21.52		
denier	50.92	-	38.01	-
Initial Modulus (gf/den)	34.10	13.91	40.86	12.75
tenacity at break (gf/den)	1.31	0.52	1.46	0.44
elongation at break (%)	43.12	4.11	38.99	5.55
toughness (gf/den)	0.35	0.15	0.37	0.13

	Bleached Control (average of 21 samples)	std dev	Bleached 5 min Stearyl Alcohol (control)	std dev
diameter (micrometers)	82.50	20.94		
denier estimate	63.44	-	37.96	-
Initial Modulus (gf/den)	23.70	15.84	42.24	13.32
tenacity at break (gf/den)	0.82	0.27	1.40	0.51
elongation at break (%)	96.47	143.19	47.05	4.66
toughness (gf/den)	0.24	0.09	0.43	0.18

	Healthy Control (average of 23 samples)	std dev	Healthy 5 min glycolic acid treatment	std dev
diameter (micrometers)	73.90	21.52		
denier	50.92	-	40.21	-
Initial Modulus (gf/den)	34.10	13.91	38.49	7.71
tenacity at break (gf/den)	1.31	0.52	1.56	0.30
elongation at break (%)	43.12	4.11	43.79	3.04
toughness (gf/den)	0.35	0.15	0.40	0.09

	Bleached Control (average of 21 samples)	std dev	Bleached 5 min glycolic acid treatment	Std Dev
diameter (micrometers)	82.50	20.94		
denier estimate	63.44	-	38.45	-
Initial Modulus (gf/den)	23.70	15.84	45.25	12.70
tenacity at break (gf/den)	0.82	0.27	1.47	0.54
elongation at break (%)	96.47	143.19	47.10	6.60
toughness (gf/den)	0.24	0.09	0.45	0.22

	Healthy Control (average of 23 samples)	std dev	Healthy 5 min Bioplex CetylSil S	std dev
diameter (micrometers)	73.90	21.52		
denier	50.92	-	38.80	-
Initial Modulus (gf/den)	34.10	13.91	43.10	15.00
tenacity at break (gf/den)	1.31	0.52	1.54	0.50
elongation at break (%)	43.12	4.11	40.22	4.21
toughness (gf/den)	0.35	0.15	0.39	0.14

	Bleached Control (average of 21 samples)	std dev	Bleached 5 min Bioplex CetylSil S	std dev
diameter (micrometers)	82.50	20.94		
denier estimate	63.44	-	40.24	-
Initial Modulus (gf/den)	23.70	15.84	43.23	17.58
tenacity at break (gf/den)	0.82	0.27	1.52	0.53
elongation at break (%)	96.47	143.19	50.64	6.27
toughness (gf/den)	0.24	0.09	0.48	0.19

	Healthy Control (average of 23 samples)	std dev	Healthy 5 min Dow Corning 2-8194 Microemulsion	std dev
diameter (micrometers)	73.90	21.52		
denier	50.92	-	34.94	-
Initial Modulus (gf/den)	34.10	13.91	45.32	19.08
tenacity at break (gf/den)	1.31	0.52	1.74	0.71
elongation at break (%)	43.12	4.11	45.68	3.51
toughness (gf/den)	0.35	0.15	0.50	0.23

	Bleached Control (average of 21 samples)	std dev	Bleached 5 min Dow Corning 2-8194 Microemulsion	std dev
diameter (micrometers)	82.50	20.94		
denier estimate	63.44	-	43.06	-
Initial Modulus (gf/den)	23.70	15.84	39.48	12.54
tenacity at break (gf/den)	0.82	0.27	1.34	0.45
elongation at break (%)	96.47	143.19	54.27	7.92
toughness (gf/den)	0.24	0.09	0.49	0.22

	Healthy Control (average of 23 samples)	std dev	Healthy 5 min Incroquat Behenyl TMS	std dev
diameter (micrometers)	73.90	21.52		
denier	50.92	-	39.67	-
Initial Modulus (gf/den)	34.10	13.91	44.73	14.56
tenacity at break (gf/den)	1.31	0.52	1.43	0.56
elongation at break (%)	43.12	4.11	44.13	7.50
toughness (gf/den)	0.35	0.15	0.42	0.19

	Bleached Control (average of 21 samples)	std dev	Bleached 5 min Incroquat Behenyl TMS	std dev
diameter (micrometers)	82.50	20.94		
denier estimate	63.44	-	36.12	-
Initial Modulus (gf/den)	23.70	15.84	44.47	16.84
tenacity at break (gf/den)	0.82	0.27	1.63	0.58
elongation at break (%)	96.47	143.19	41.73	2.68
toughness (gf/den)	0.24	0.09	0.43	0.17













