



Dyneema[®]

Product
Overview





Dyneema®

DSM Dyneema is the inventor and manufacturer of Ultra High Molecular Weight PolyEthylene (UHMwPE) fiber branded as Dyneema®, the world's strongest fiber™. Dyneema® offers maximum strength combined with minimum weight. It is up to 15 times stronger than quality steel and up to 40 percent stronger than aramid fibers, both on weight for weight basis. Dyneema® fiber floats on water and is extremely durable and resistant to moisture, UV light and chemicals. The applications are therefore more or less unlimited.

Type	Titer dtex	Filaments	Tenacity			Modulus		Elongation	
			cN/dtex	g/den	GPa	cN/dtex	g/den	GPa	at break %
DM20*	1760	780	32,0	36,3	3,1	960	1088	94	3,6
SK38	6600	1000	16,5	18,7	1,6	350	396	34	6,5
SK38	3300	500	16,5	18,7	1,6	350	396	34,3	6,5
SK60	440	390	30,5	34,6	3,0	1060	1200	103	3,5
SK60	880	780	31,4	35,6	3,1	1070	1212	104	3,9
SK62	440	195	31,0	35,1	3,0	1070	1212	104	3,5
SK62	1760	780	29,0	32,8	2,8	940	1065	32	3,5
SK62	2640	780	28,6	32,4	2,8	875	989	86	3,5
SK65	110	96	33,9	38,4	3,3	1090	1235	106	3,5
SK65	165	140	33,4	37,8	3,3	1065	1206	103	3,5
SK65	220	192	33,0	37,4	3,2	1090	1234	106	3,5
SK75	55	25	39,5	44,7	3,8	1300	1473	127	3,5
SK75	110	50	40,0	45,0	3,9	1370	1552	132	3,5
SK75	220	100	39,5	44,7	3,9	1375	1558	134	3,5
SK75	440	195	37,4	42,4	3,6	1325	1501	129	3,5
SK75	1500	780	36,5	41,3	3,5	1340	1518	130	3,5
SK75	1760	780	35,1	39,8	3,4	1160	1314	113	3,5
SK75	2640	780	33,5	37,9	3,3	1118	1267	109	3,5
SK78	1760	780	35,1	39,8	3,4	1160	1314	113	3,5
SK78 XBO*	1760	780	29,0	33,0	2,8	-	-	-	3,5
SK78	2640	780	33,5	37,9	3,3	1118	1267	109	3,5
SK90	1040	1176	39,5	44,7	3,8	1435	1625	140	3,5
SK99*	880	880	42,5	48,1	4,1	1590	1801	155	3,5
3G12	220	65	16,5	18,7	1,6	-	-	-	3,5
3G12	440	130	16,8	19,0	1,6	-	-	-	3,5
3G12	660	195	16,6	18,8	1,6	-	-	-	3,5
3GX12*	1760	520	16,1	18,2	1,6	-	-	-	3,5
DMX20 XBO*	1760	780	28,1	32,0	2,6	-	-	-	3,6

* These products are only available under a license from DSM Dyneema

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