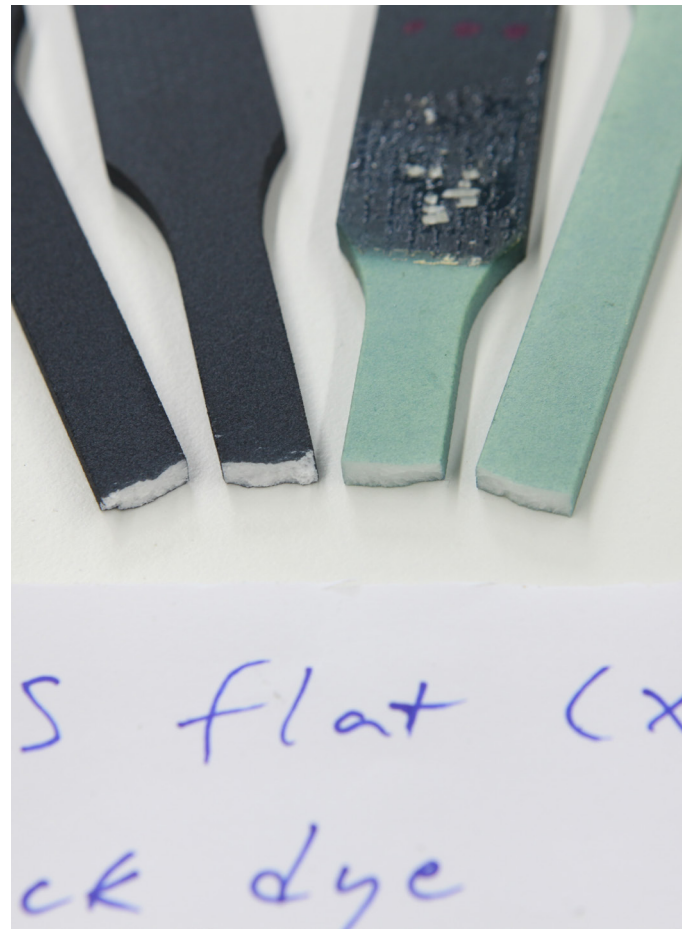
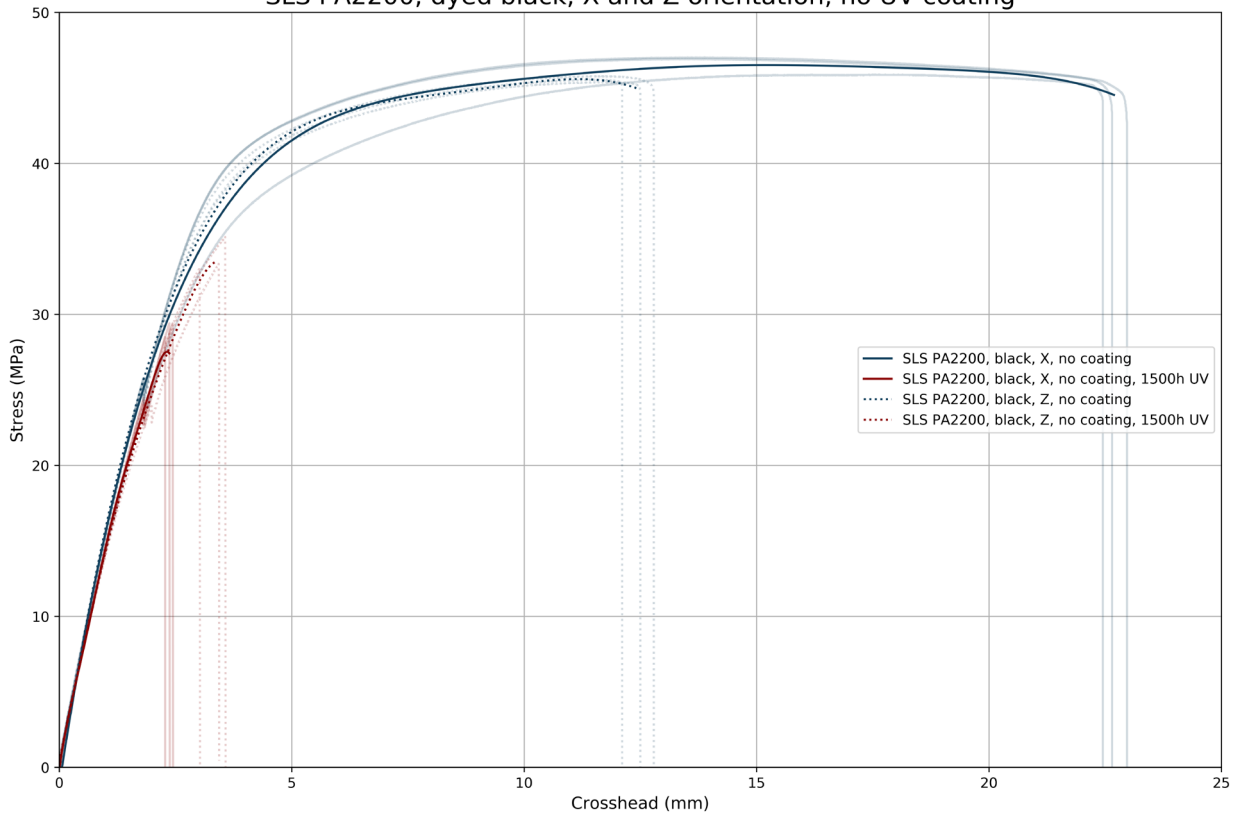


# SLS PA2200, DYED BLACK, NO UV COATING



SLS PA2200, dyed black, X and Z orientation, no UV coating



SLS PA2200 XY	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1 *	10,09	3,92	45,889	1,815	22,45	1811,917
Sample 2	10,07	3	46,929	1,843	22,65	1873,451
Sample 3	10,06	3,92	47,03	1,855	22,97	1872,174
		<b>Mean</b>	46,612	1,838	22,69	1852,514
		<b>Std. Dev.</b>	0,632	0,0205	0,262	35,164

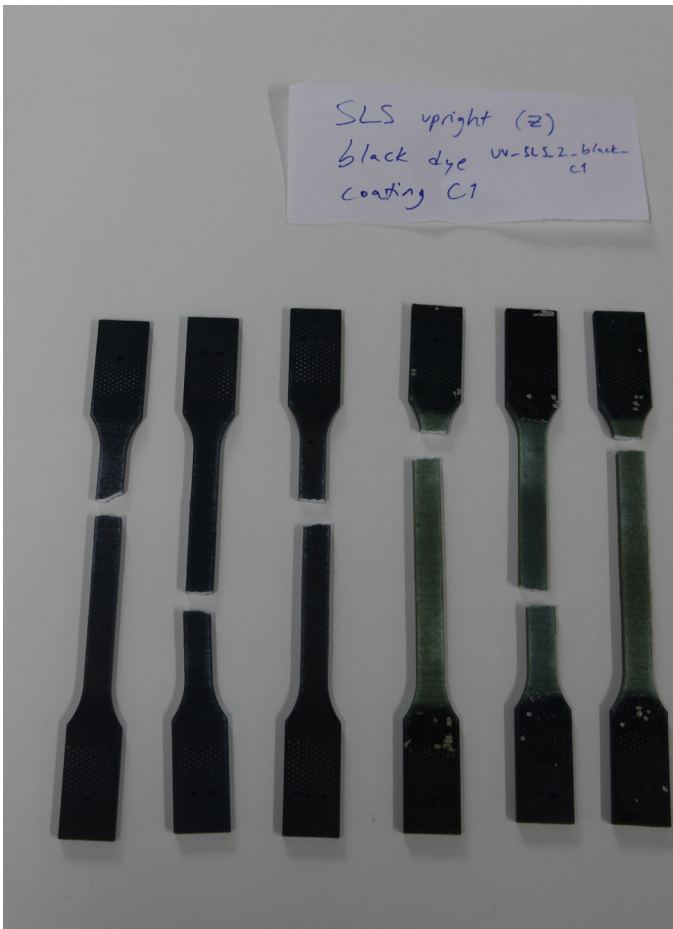
\*An outlier measurement caused by a typo in the definition of sample dimensions. Mean and stdev values omitted.

SLS PA2200 XY, UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,07	3,92	28,491	1,125	2,28	1785,965
Sample 2	10,09	3,95	29,411	1,172	2,38	1810,667
Sample 3	10,07	3,95	29,414	1,17	2,45	1790,179
		<b>Mean</b>	29,105	1,156	2,37	1795,603
		<b>Std. Dev.</b>	0,532	0,0265	0,0854	13,214

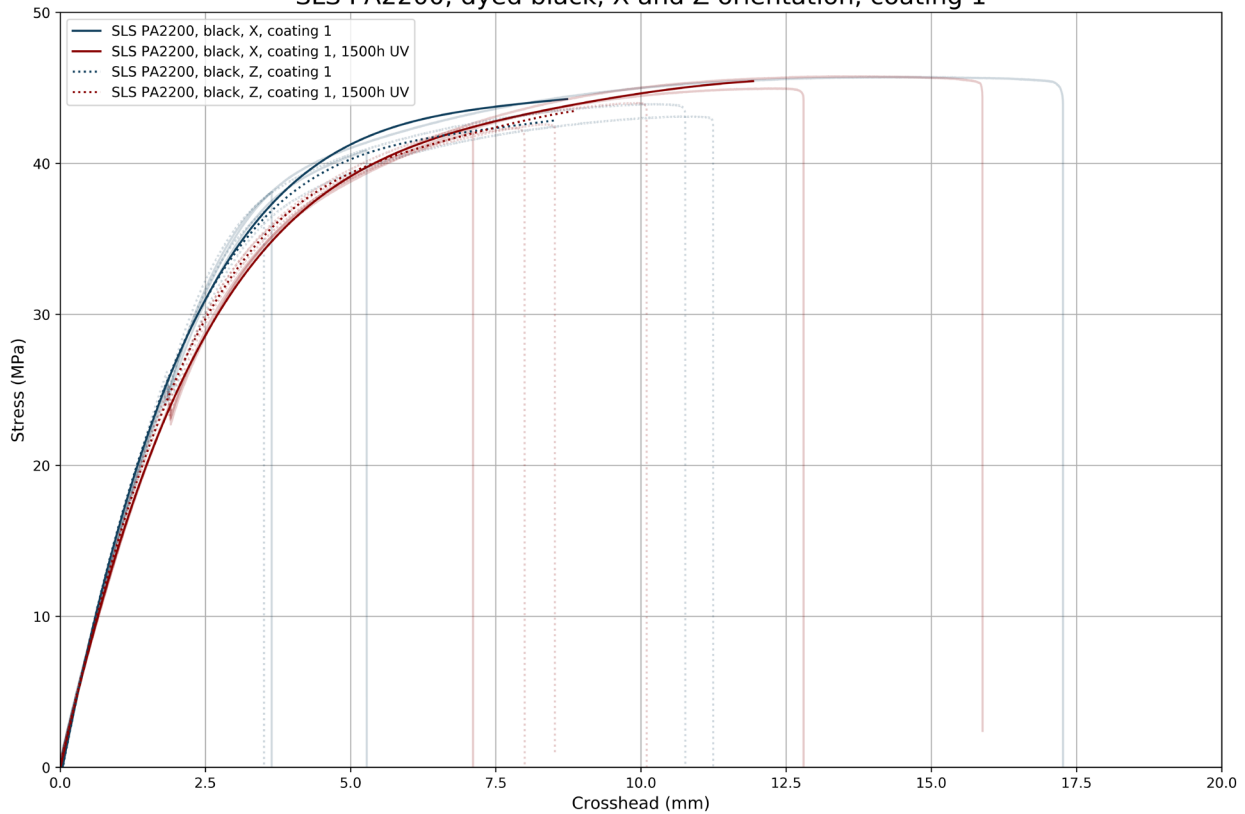
SLS PA2200 Z	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,08	4,16	45,384	1,903	12,5	1809,735
Sample 2	10,06	4,19	45,559	1,92	12,11	1915,556
Sample 3	10,08	4,17	45,779	1,924	12,79	1934,211
		<b>Mean</b>	45,574	1,915	12,467	1886,5
		<b>Std. Dev.</b>	0,198	0,011	0,341	67,132

SLS PA2200 Z, UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,08	4,22	33,351	1,419	3,44	1816,529
Sample 2	10,08	4,21	35,13	1,491	3,58	1753,112
Sample 3	10,06	4,13	33,042	1,373	3,03	1828,631
		<b>Mean</b>	33,841	1,427	3,35	1799,424
		<b>Std. Dev.</b>	1,127	0,059	0,286	40,561

# SLS PA2200, DYED BLACK, COATING 1



SLS PA2200, dyed black, X and Z orientation, coating 1



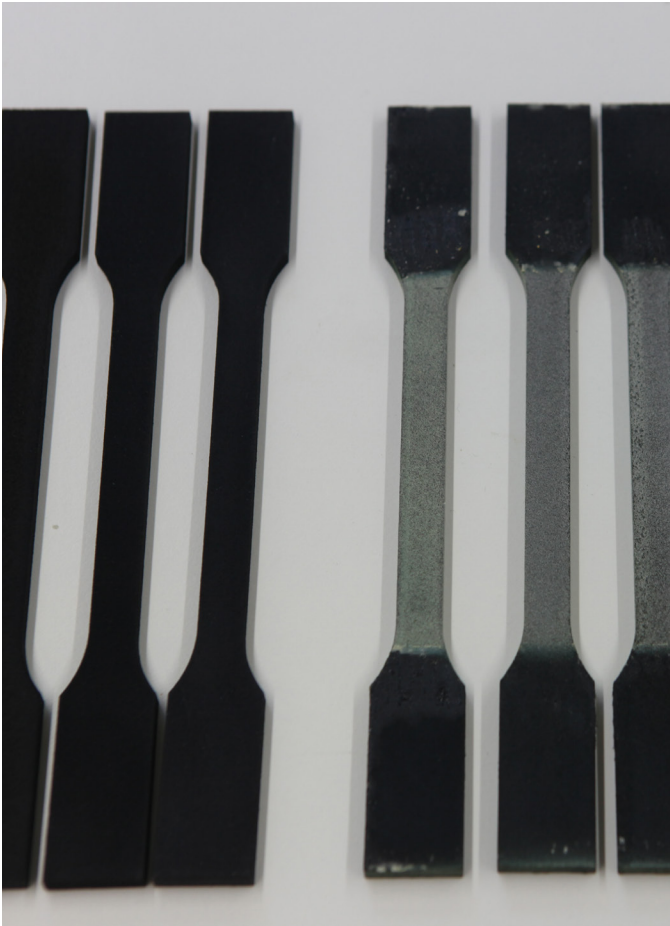
PA2200 XY, coating 1	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,38	3,89	40,86	1,65	5,279	1849,587
Sample 2	10,26	3,91	45,725	1,834	17,27	1870,42
Sample 3	10,43	3,91	38,111	1,554	3,642	1851,25
		<b>Mean</b>	41,565	1,679	8,729	1857,084
		<b>Std. Dev.</b>	3,856	0,142	7,439	11,576

PA2200 XY, coating 1, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,38	3,92	45,772	1,862	15,882	1866,942
Sample 2	10,45	3,92	42,1	1,725	7,108	1865
Sample 3	10,42	3,94	44,977	1,847	12,8	1864,05
		<b>Mean</b>	44,283	1,811	11,93	1865,331
		<b>Std. Dev.</b>	1,932	0,0751	4,451	1,474

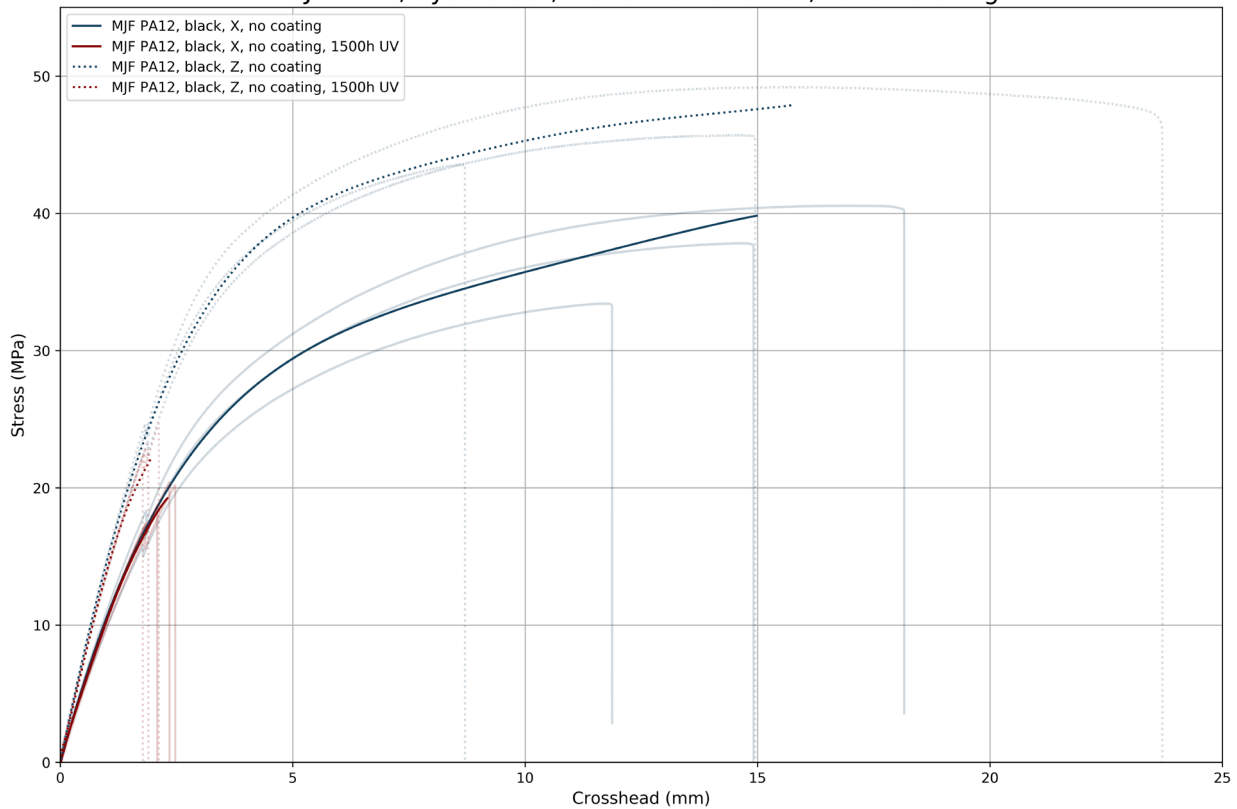
PA2200 Z, coating 1	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,21	4,16	43,929	1,866	10,765	1950,622
Sample 2	10,46	4,25	36,81	1,363	3,51	1941,736
Sample 3	10,41	4,21	43,113	1,889	11,244	1921,901
		<b>Mean</b>	41,284	1,797	8,506	1938,086
		<b>Std. Dev.</b>	3,896	0,14	4,334	14,704

PA2200 Z, coating 1, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,37	4,22	42,593	1,864	8,518	1894,167
Sample 2	10,42	4,19	42,334	1,848	7,998	1991,736
Sample 3	10,23	4,23	44,007	1,904	10,099	1966,946
		<b>Mean</b>	42,978	1,872	8,872	1950,949
		<b>Std. Dev.</b>	0,901	0,029	1,094	50,713

# MJF PA12, DYED BLACK, NO COATING



MJF PA12, dyed black, X and Z orientation, no UV coating



MJF PA12 XY	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,38	4,23	33,429	1,39	11,873	1242,324
Sample 2	9,83	4,25	37,829	1,58	14,914	1349,538
Sample 3	9,91	4,34	40,562	1,745	18,157	1458,678
		<b>Mean</b>	37,273	1,572	14,981	1350,195
		<b>Std. Dev.</b>	3,599	0,178	3,143	108,178

MJF PA12 XY, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,88	4,29	20,188	0,856	2,476	1297,107
Sample 2	9,82	4,26	18,709	0,783	2,089	1361,411
Sample 3	9,91	4,29	20,422	0,868	2,351	1353,112
		<b>Mean</b>	19,773	0,836	2,305	1337,21
		<b>Std. Dev.</b>	0,929	0,046	0,198	34,977

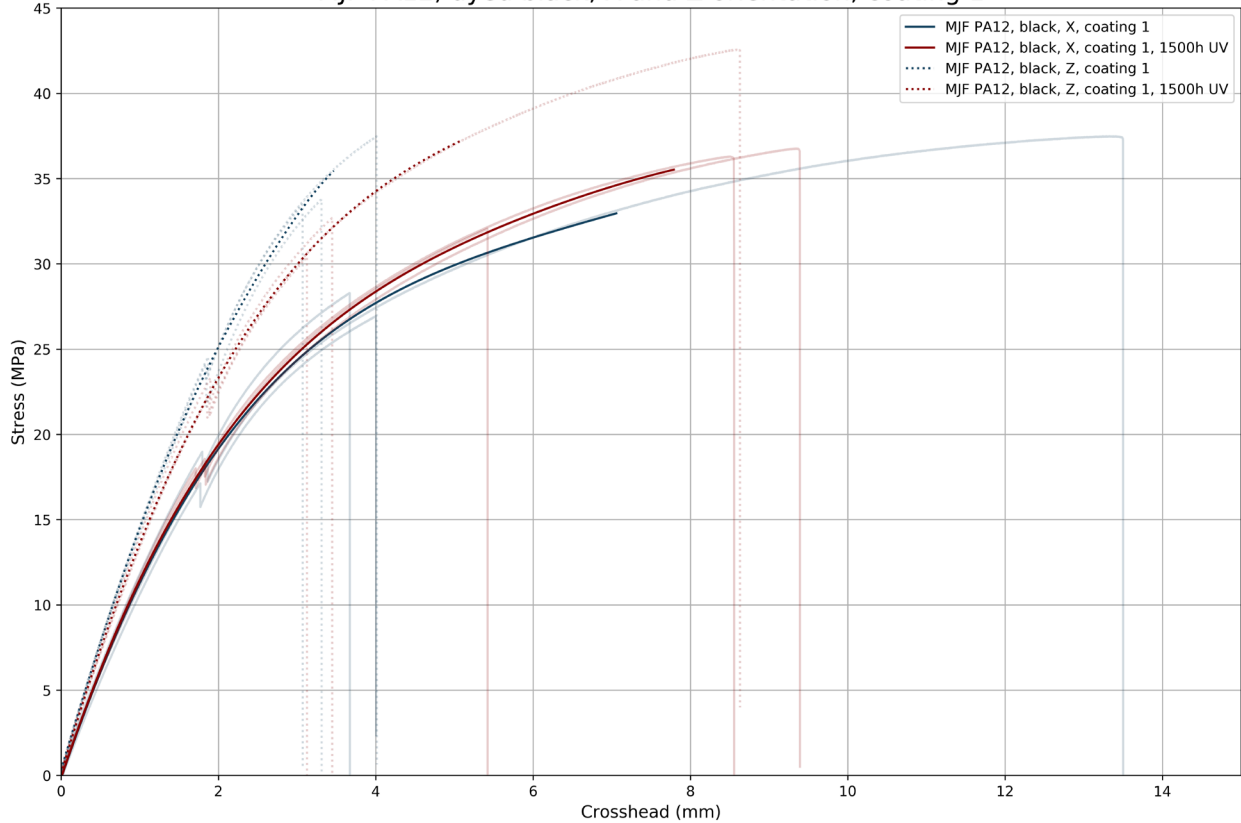
MJF PA12 Z	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,98	3,90	45,693	1,778	14,951	1777,686
Sample 2	10,08	4,03	49,21	1,999	23,709	1844,813
Sample 3	10,03	3,95	43,564	1,726	8,708	1873,14
		<b>Mean</b>	46,564	1,834	15,789	1831,88
		<b>Std. Dev.</b>	2,851	0,145	7,536	49,024

MJF PA12 Z, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,11	4,00	22,685	0,917	1,897	1711,715
Sample 2	10,05	3,98	24,699	0,988	2,211	1768,465
Sample 3	10,14	4,02	22,281	0,908	1,814	1757,261
		<b>Mean</b>	23,222	0,938	1,944	1745,814
		<b>Std. Dev.</b>	1,295	0,0438	0,159	30,057

# MJF PA12, DYED BLACK, COATING 1



MJF PA12, dyed black, X and Z orientation, coating 1



MJF PA12 XY, coating 1	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,11	4,14	37,486	1,569	13,502	1442,324
Sample 2	10,19	4,15	28,289	1,196	3,671	1510,744
Sample 3	10,44	4,03	26,927	1,133	4,003	1334,298
		<b>Mean</b>	30,901	1,299	7,059	1429,122
		<b>Std. Dev.</b>	5,744	0,236	5,583	88,961

MJF PA12 XY, coating 1, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,48	4,04	36,766	1,557	9,392	1472,199
Sample 2	10,29	4,05	36,295	1,513	8,555	1374,167
Sample 3	10,35	4,08	32,07	1,354	5,422	1504,149
		<b>Mean</b>	35,044	1,475	7,79	1450,172
		<b>Std. Dev.</b>	2,586	0,107	2,093	67,733

MJF PA12 Z, coating 1	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,42	3,94	37,478	1,539	4,014	1796,68
Sample 2	10,54	4,05	33,785	1,422	3,312	1763,9
Sample 3	10,67	4,00	33,495	1,43	3,072	1822,407
		<b>Mean</b>	34,919	1,47	3,466	1794,329
		<b>Std. Dev.</b>	2,221	0,0598	0,49	29,324

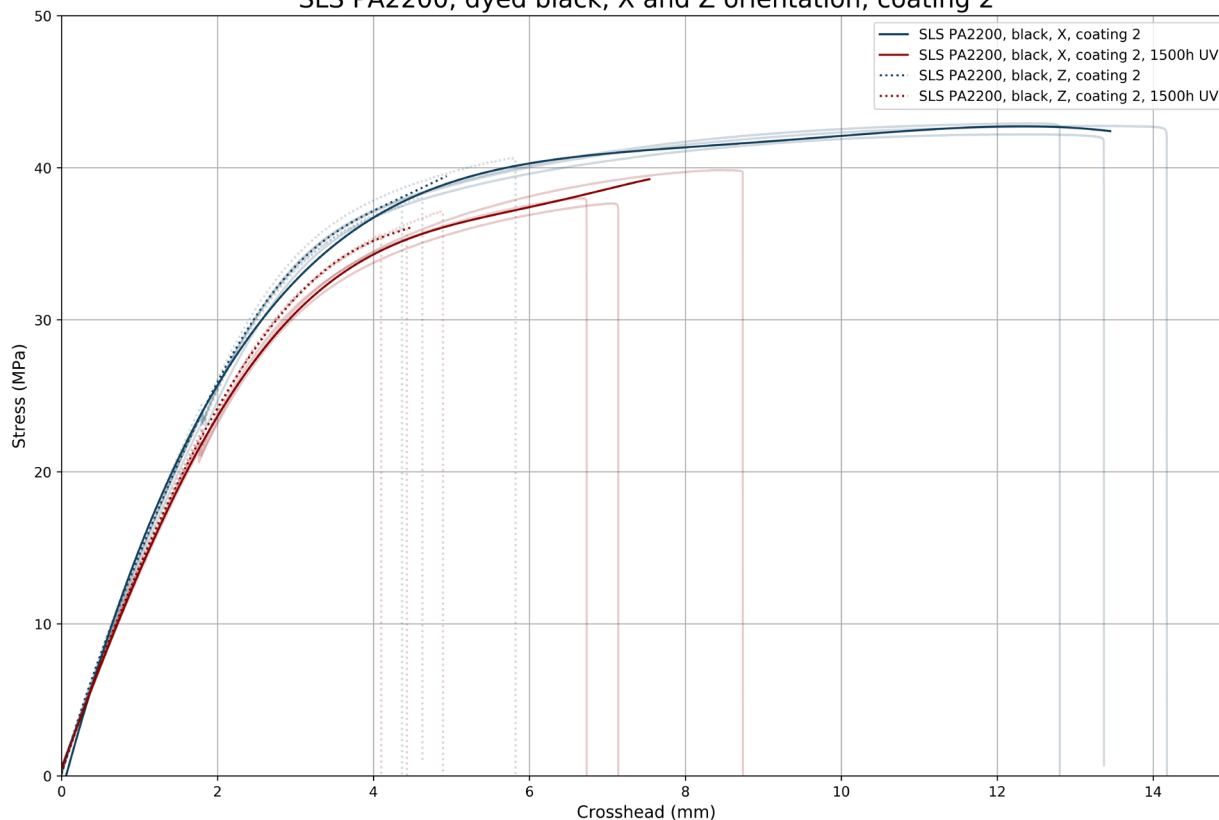
MJF PA12 Z, coating 1, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,57	4,04	30,402	1,298	3,126	1783,058
Sample 2	10,4	4,02	32,694	1,367	3,447	1803,719
Sample 3	10,58	3,94	42,561	1,774	8,63	1718,672
		<b>Mean</b>	35,219	1,48	5,068	1768,483
		<b>Std. Dev.</b>	6,461	0,257	3,089	44,357



# SLS PA2200, DYED BLACK, COATING 2



SLS PA2200, dyed black, X and Z orientation, coating 2



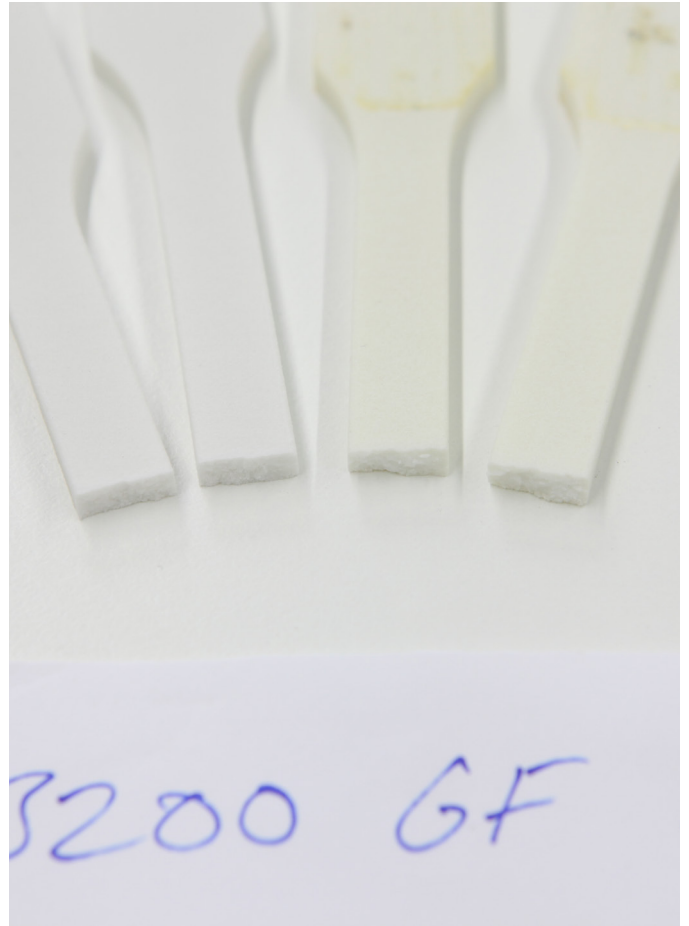
PA2200 XY coating 2	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,9	3,84	42,773	1,626	14,176	1747,303
Sample 2	9,97	3,99	42,211	1,697	13,369	1792,975
Sample 3	9,99	3,85	42,925	1,651	12,803	1788,477
		<b>Mean</b>	42,636	1,652	13,449	1776,252
		<b>Std. Dev.</b>	0,376	0,0265	0,69	25,171

PA2200 XY coating 2 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,94	3,90	38,0	1,473	6,735	1617,083
Sample 2	9,9	3,94	37,664	1,469	7,14	1576,763
Sample 3	10,02	3,86	39,859	1,542	8,738	1626,86
		<b>Mean</b>	38,508	1,495	7,538	1606,902
		<b>Std. Dev.</b>	1,182	0,041	1,0591	26,555

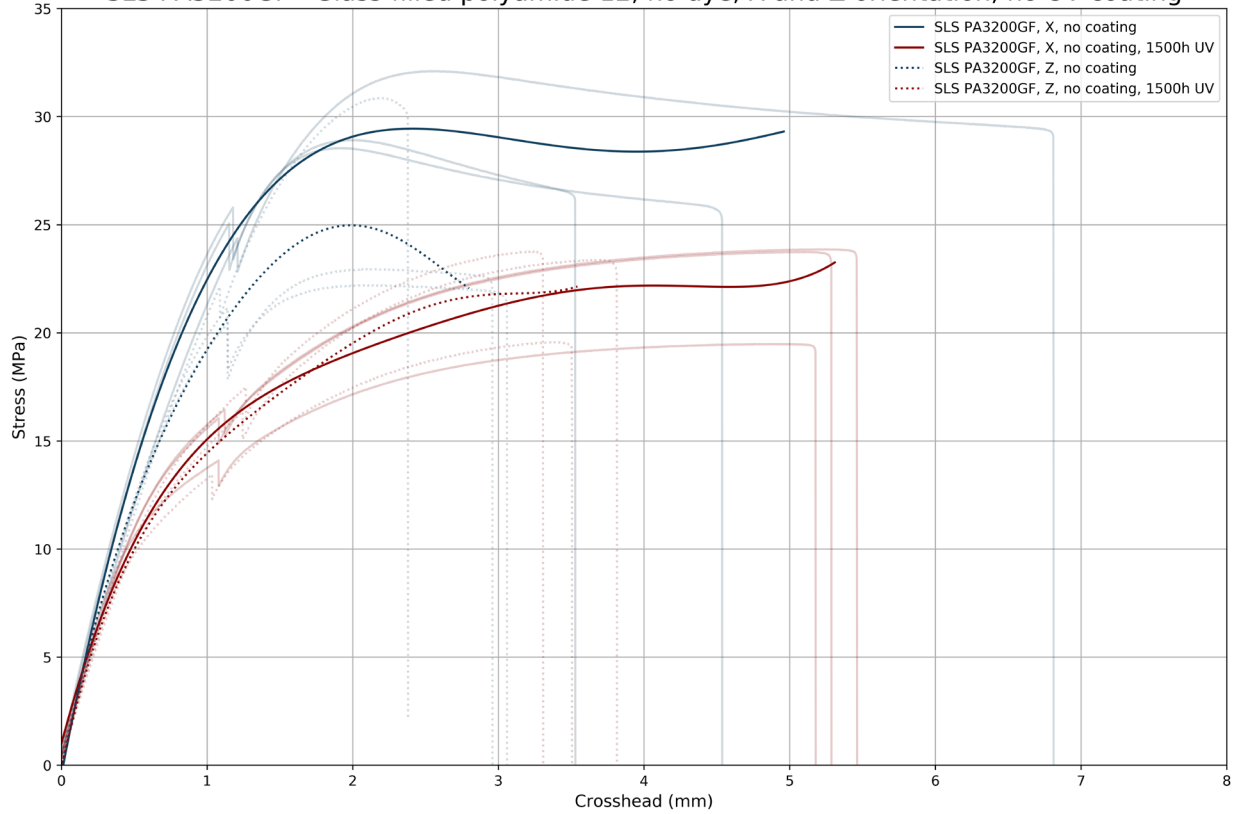
PA2200 Z coating 2	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,91	3,93	38,038	1,481	4,628	1764,05
Sample 2	9,93	3,90	40,62	1,573	5,822	1792,946
Sample 3	9,88	3,93	37,461	1,455	4,368	1783,951
		<b>Mean</b>	38,706	1,503	4,939	1780,315
		<b>Std. Dev.</b>	1,682	0,062	0,776	14,787

PA2200 Z coating 2, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,95	3,96	37,117	1,463	4,892	1701,667
Sample 2	9,88	3,94	36,025	1,402	4,429	1740,909
Sample 3	9,93	3,90	35,558	1,377	4,1	1697,521
		<b>Mean</b>	36,233	1,414	4,474	1713,365
		<b>Std. Dev.</b>	0,8	0,0442	0,398	23,943

# PA3200GF, NO COATING



SLS PA3200GF - Glass-filled polyamide 12, no dye, X and Z orientation, no UV coating



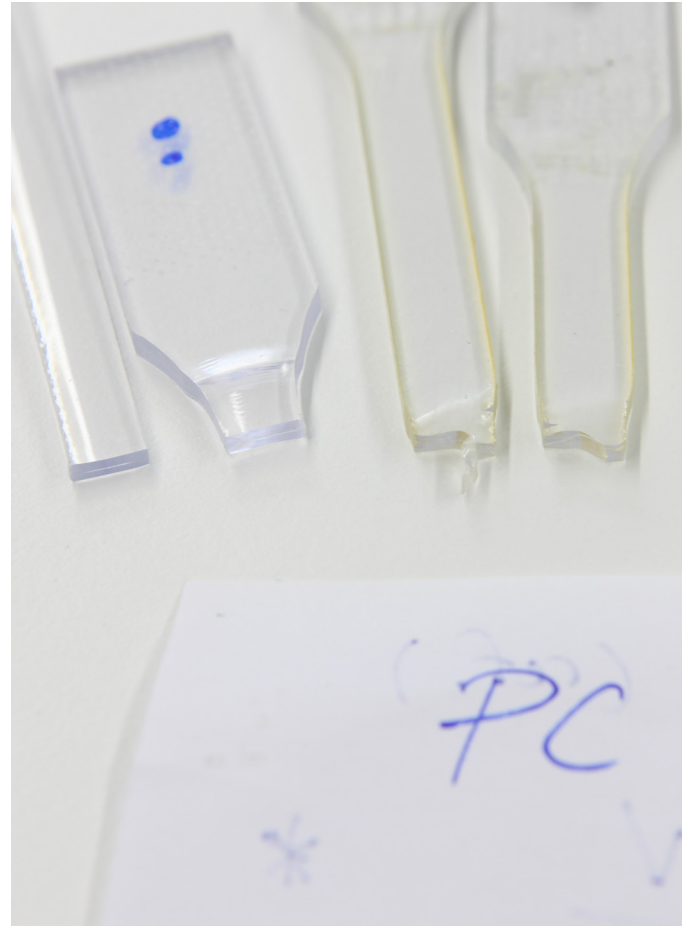
PA3200GF XY	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,03	3,94	32,106	1,269	6,812	2893,416
Sample 2	10,06	4,02	28,928	1,17	3,529	3376,934
Sample 3	10,05	3,97	28,545	1,139	4,537	3534,583
		<b>Mean</b>	29,86	1,193	4,959	3267,978
		<b>Std. Dev.</b>	1,955	0,0679	1,682	333,938

PA3200GF XY, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,97	3,90	23,752	0,924	5,287	2715,833
Sample 2	9,99	3,92	23,868	0,935	5,423	2784,711
Sample 3	10,13	4,02	19,487	0,794	5,179	2868,05
		<b>Mean</b>	22,369	0,884	5,31	2789,531
		<b>Std. Dev.</b>	2,497	0,0784	0,143	76,223

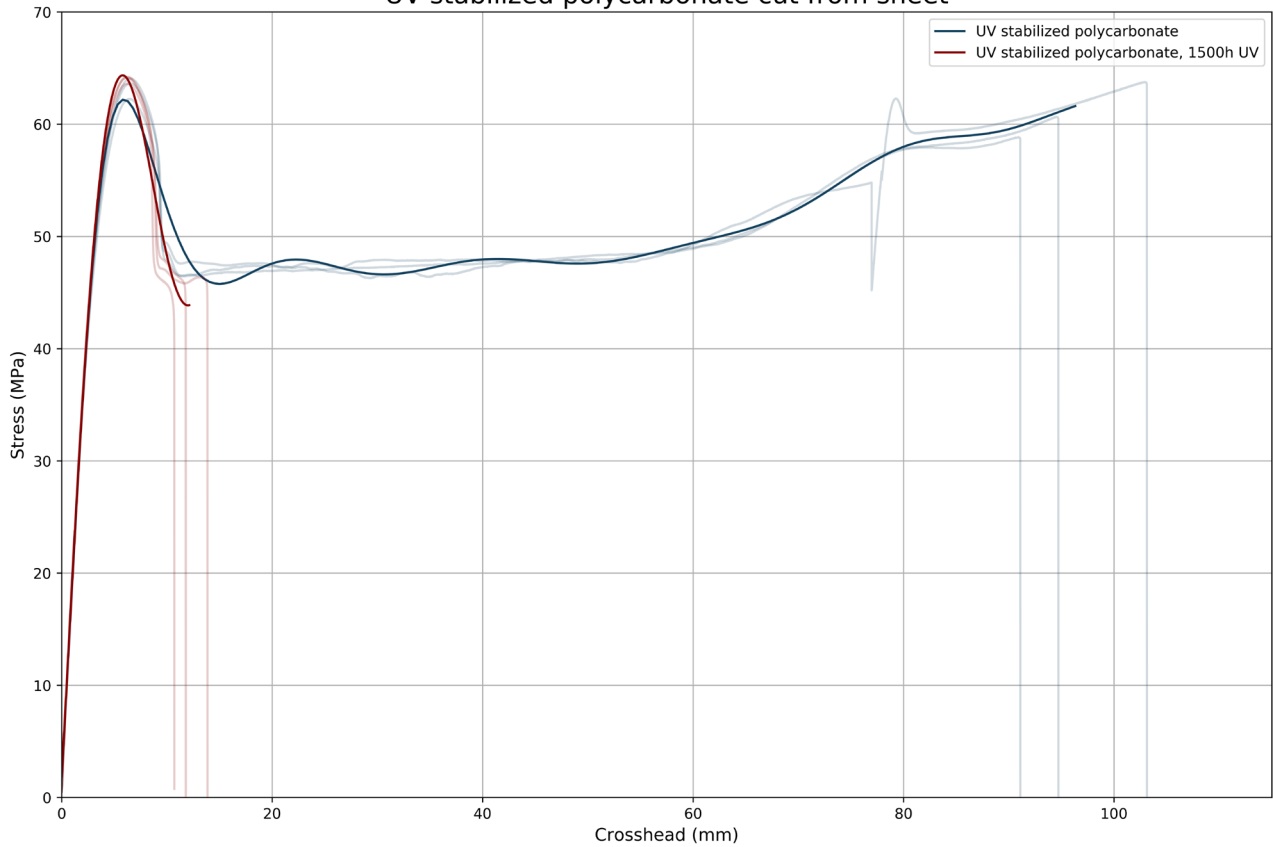
PA3200GF Z	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,93	3,94	30,862	1,207	2,38	2436,25
Sample 2	9,81	3,85	22,944	0,867	2,96	2946,694
Sample 3	9,84	3,91	22,204	0,854	3,06	2974,38
		<b>Mean</b>	25,337	0,976	2,8	2785,775
		<b>Std. Dev.</b>	4,799	0,2	0,367	303,014

PA3200GF Z, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	9,94	3,98	23,372	0,925	3,814	2271,548
Sample 2	9,97	4,00	19,565	0,78	3,506	2597,083
Sample 3	9,89	3,93	23,779	0,924	3,308	2325,0
		<b>Mean</b>	22,239	0,876	3,543	2397,877
		<b>Std. Dev.</b>	2,324	0,0834	0,255	174,575

# UV-RESISTANT PC, CUT FROM SHEET



### UV stabilized polycarbonate cut from sheet

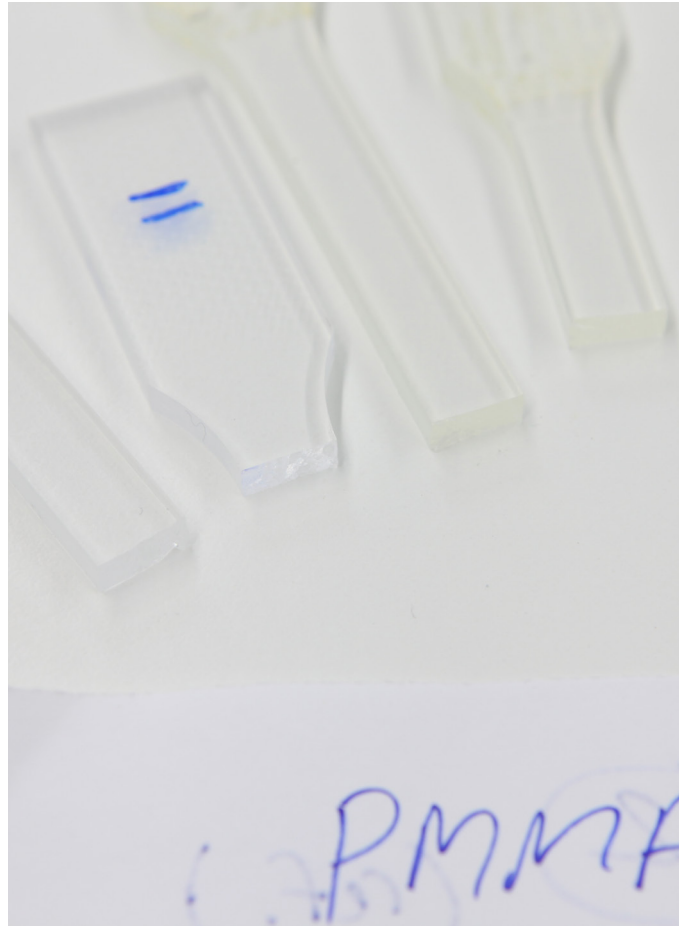


PC UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1 *	10,1	3,90	63,754	2,511	103,131	2432,099
Sample 2	10,09	3,92	63,639	2,517	91,11	2400,976
Sample 3	10,06	3,90	64,075	2,519	94,73	2465,7
		<b>Mean</b>	63,823	2,516	96,324	2432,925
		<b>Std. Dev.</b>	0,226	0,00416	6,167	32,37

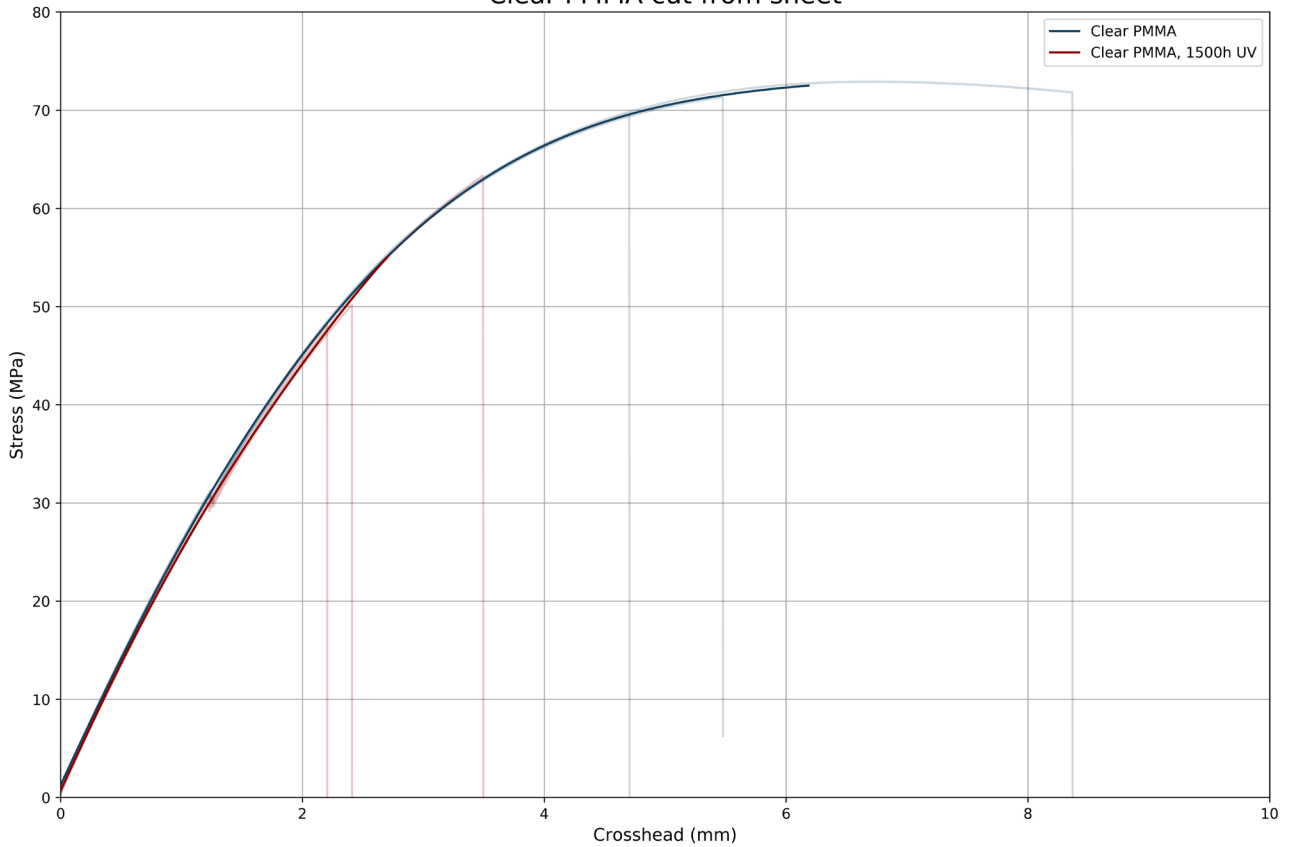
\*Discontinuity: test paused, test speed increased and test continued around crosshead 75 mm

PC UV, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,08	3,92	64,174	2,536	11,801	2497,561
Sample 2	10,08	3,93	64,229	2,544	13,861	2452,5
Sample 3	10,07	3,97	63,625	2,544	10,711	2384,314
		<b>Mean</b>	64,009	2,541	12,124	2444,792
		<b>Std. Dev.</b>	0,344	0,00461	1,56	57,016

# PMMA, CUT FROM SHEET



Clear PMMA cut from sheet

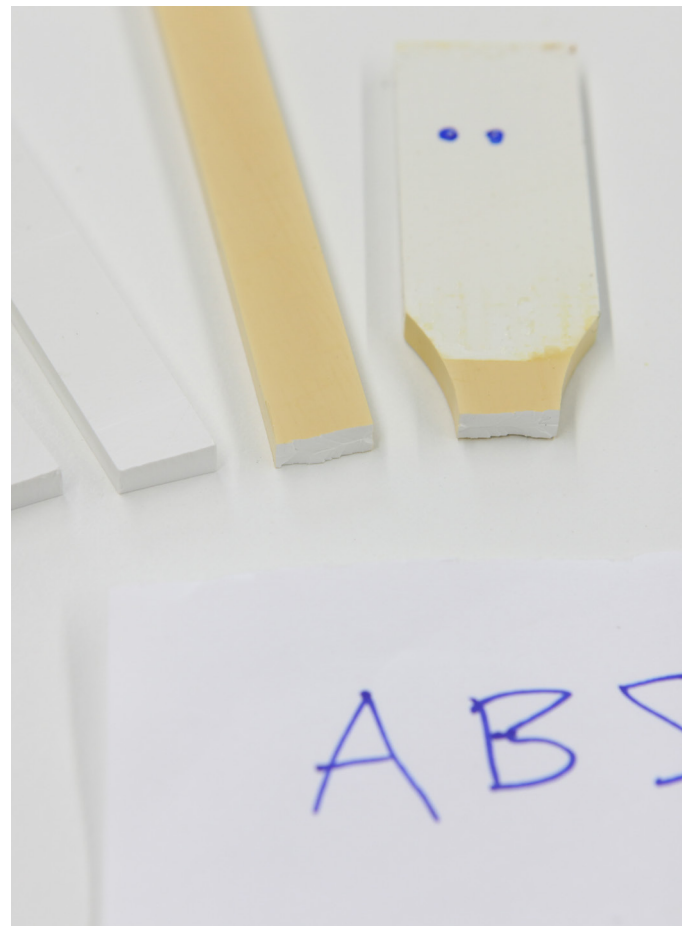
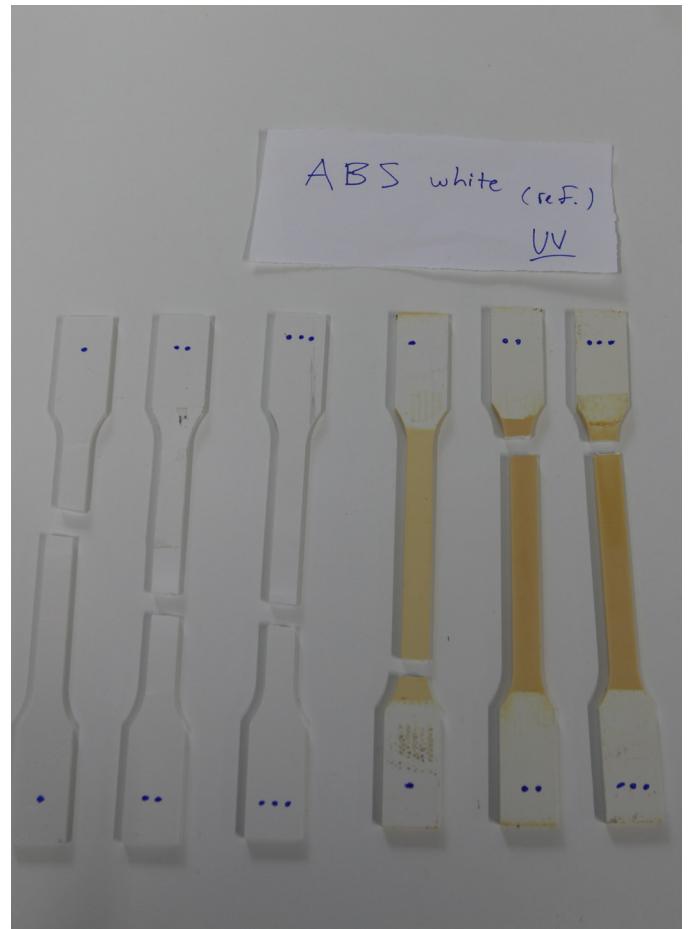


PMMA	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,17	4,00	71,355	2,902	5,478	3345,455
Sample 2	10,18	4,01	69,541	2,839	4,706	3282,305
Sample 3	10,18	4,03	72,921	2,992	8,371	3322,634
		<b>Mean</b>	71,266	2,911	6,185	3316,798
		<b>Std. Dev.</b>	1,691	0,0769	1,932	31,977

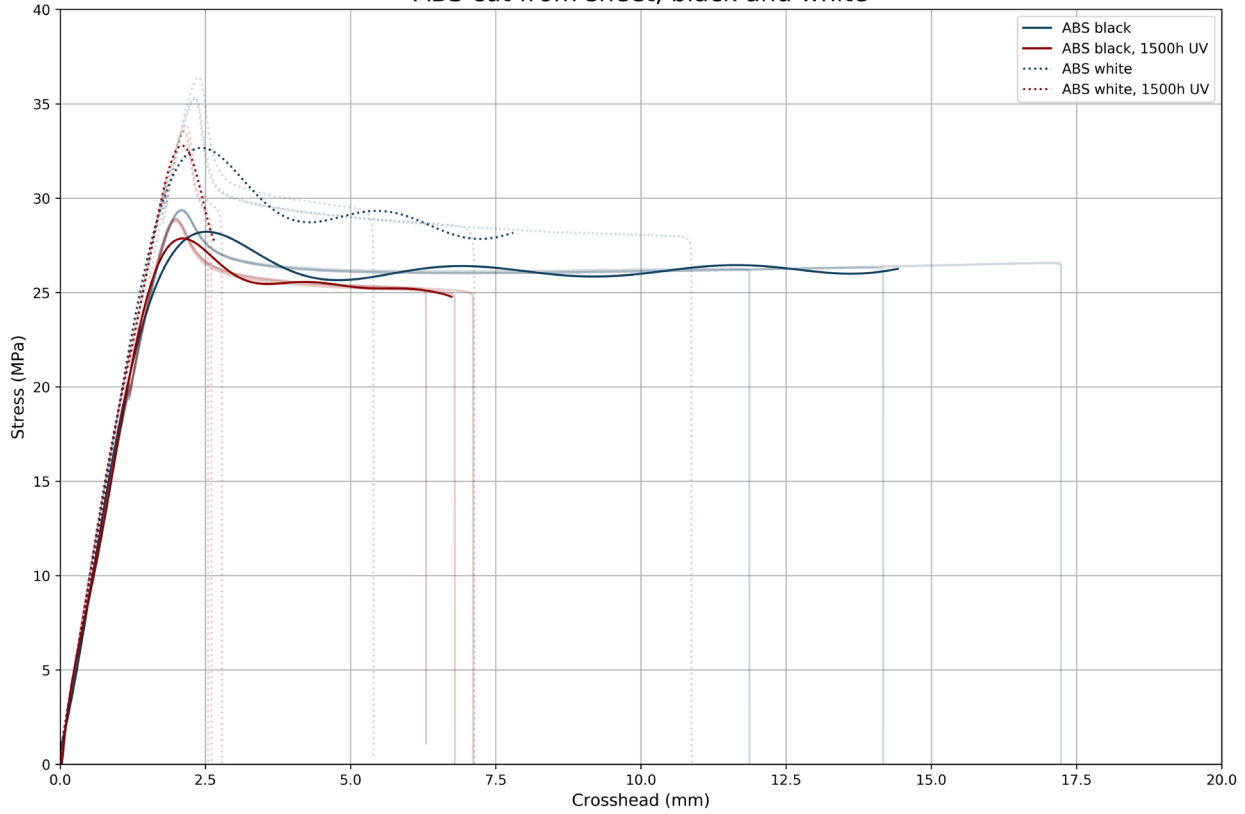
PMMA, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,2	3,98	50,178	2,037	2,411	3287,137
Sample 2	10,16	4,00	48,152	1,957	2,206	3277,593
Sample 3	10,17	4,01	63,346	2,583	3,496	3162,81
		<b>Mean</b>	53,892	2,192	2,704	3242,513
		<b>Std. Dev.</b>	8,25	0,341	0,693	69,19



# ABS BLACK AND WHITE, CUT FROM SHEET



ABS cut from sheet, black and white



ABS Black	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,1	3,98	29,403	1,182	11,87	2069,163
Sample 2	10,09	4,00	29,351	1,185	14,172	2053,712
Sample 3	10,11	3,99	29,358	1,184	17,233	2105,752
		<b>Mean</b>	29,371	1,184	14,425	2076,209
		<b>Std. Dev.</b>	0,0282	0,00153	2,69	26,726

ABS Black, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,07	3,98	28,929	1,159	6,302	2104,018
Sample 2	10,1	3,99	28,781	1,16	6,797	2097,788
Sample 3	10,12	3,97	28,881	1,16	7,113	2155,556
		<b>Mean</b>	28,864	1,16	6,737	2119,12
		<b>Std. Dev.</b>	0,0755	0,00057	0,409	31,707

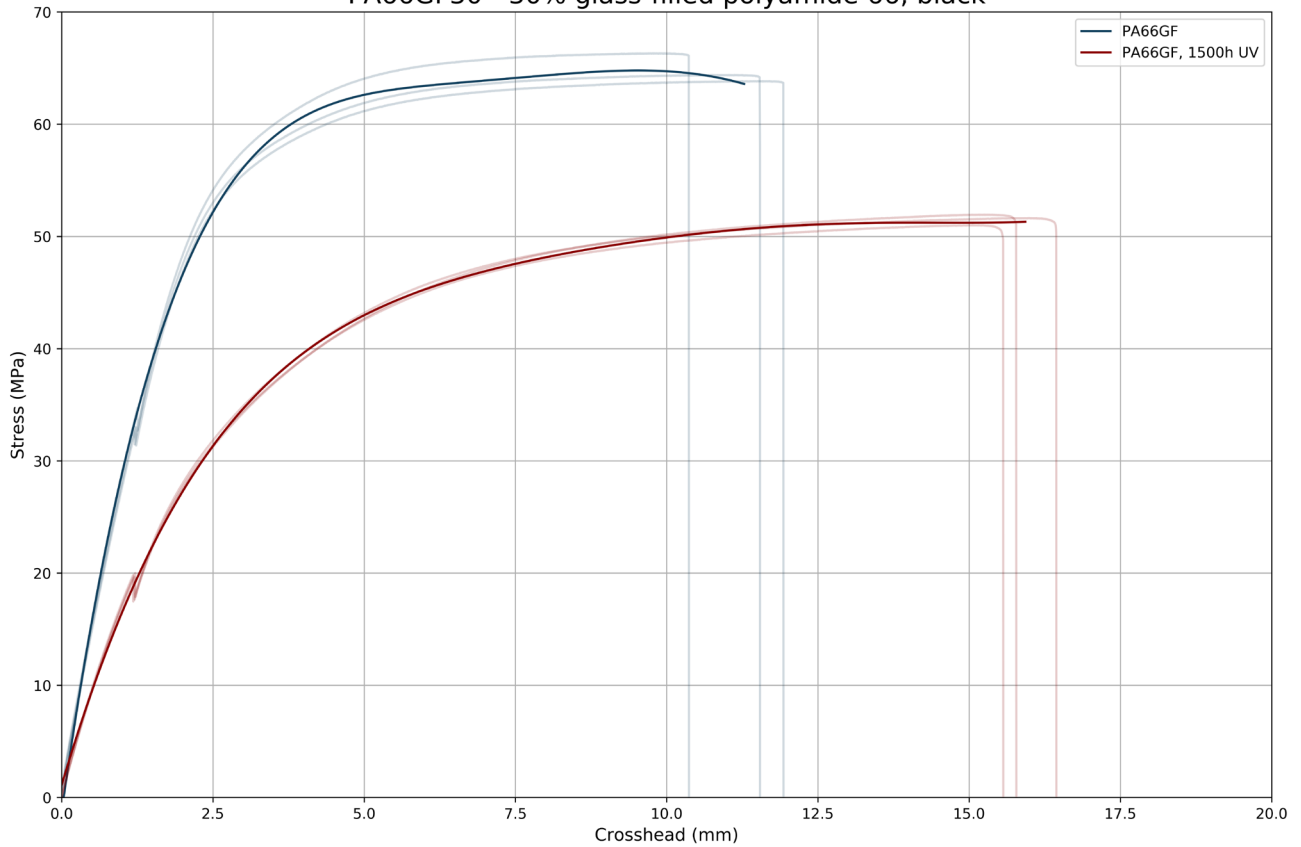
ABS White	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,07	3,98	36,416	1,459	5,395	2325,253
Sample 2	10,1	4,00	35,32	1,427	10,871	2105,677
Sample 3	10,08	4,00	35,31	1,424	7,135	2252,632
		<b>Mean</b>	35,682	1,437	7,8	2227,854
		<b>Std. Dev.</b>	0,636	0,0194	2,798	111,865

ABS White, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,09	3,98	33,881	1,361	2,785	2352,632
Sample 2	10,09	4,00	33,521	1,353	2,607	2355,217
Sample 3	10,08	3,99	33,585	1,351	2,549	2343,913
		<b>Mean</b>	33,662	1,355	2,647	2350,587
		<b>Std. Dev.</b>	0,192	0,00529	0,123	5,923

# PA66GF, 30% GLASS FILLED, MACHINED



PA66GF30 - 30% glass-filled polyamide 66, black



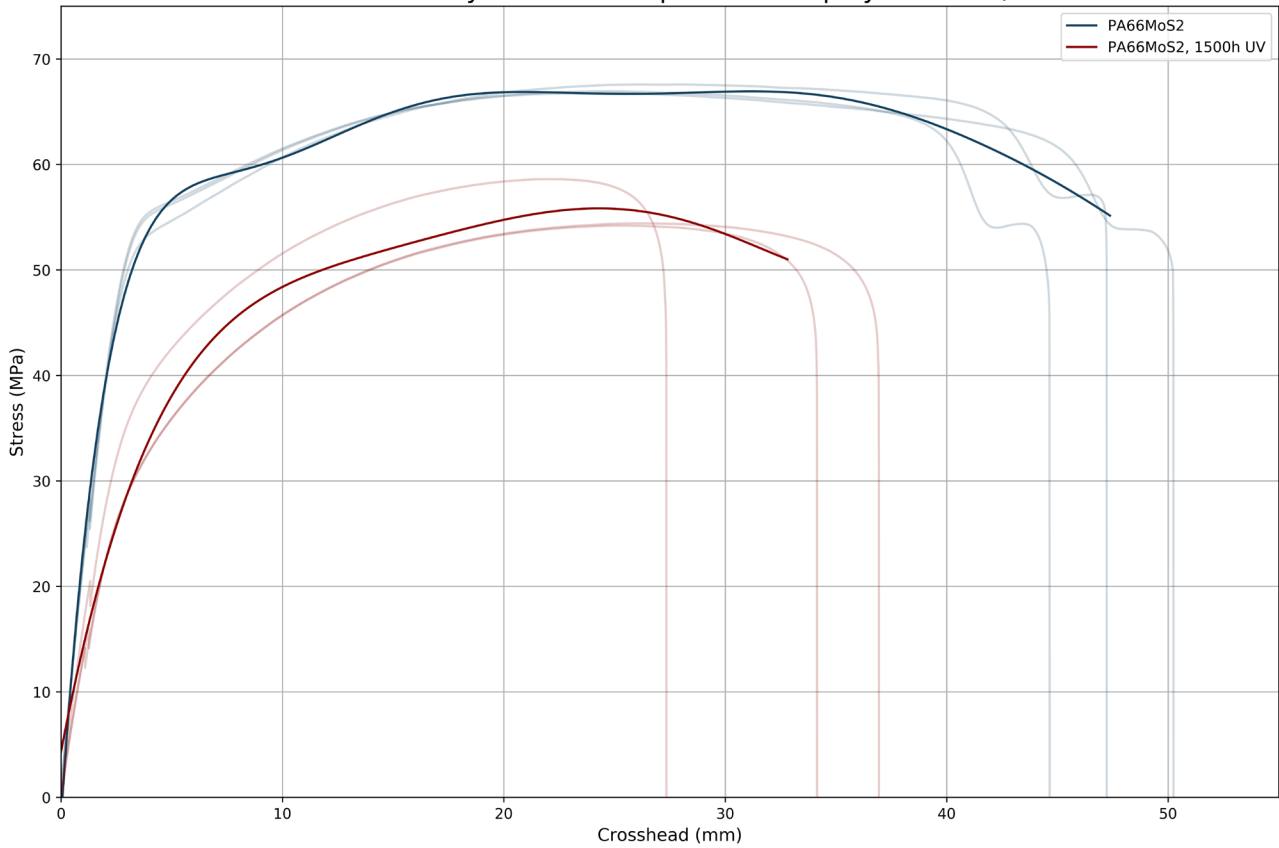
SAMPLE Name	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,07	4,03	64,39	2,613	11,542	3513,596
Sample 2	10,07	3,99	63,841	2,565	11,932	3536,522
Sample 3	10,07	4,07	66,313	2,718	10,369	3735,398
		<b>Mean</b>	64,848	2,632	11,281	3595,172
		<b>Std. Dev.</b>	1,298	0,0782	0,814	121,979

SAMPLE Name, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,12	3,97	51,943	2,087	15,78	2418,103
Sample 2	10,09	4,06	51,631	2,115	16,442	2335,965
Sample 3	10,11	4,00	51,011	2,063	15,564	2405,677
		<b>Mean</b>	51,528	2,088	15,929	2386,582
		<b>Std. Dev.</b>	0,474	0,026	0,457	44,274

# PA66MOS2, MOLYBDENUM DISULPHIDE FILLED



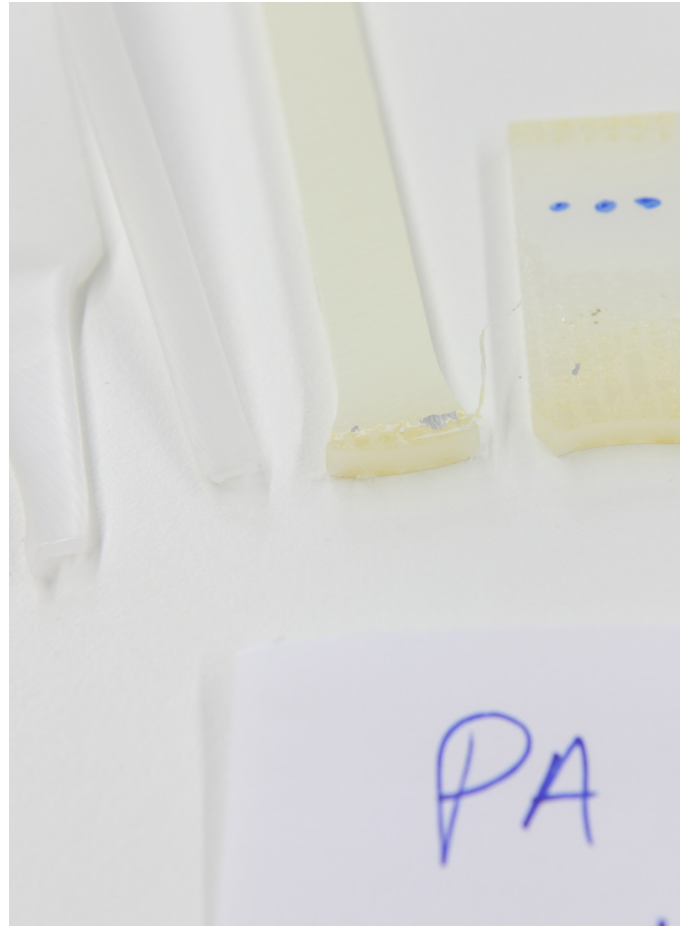
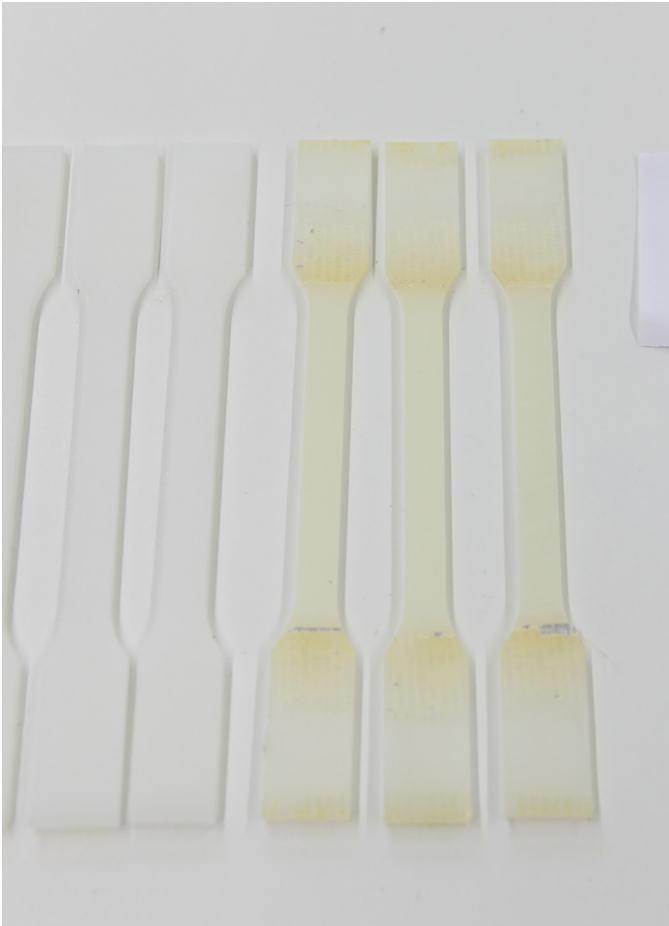
PA66MoS2 - molybdenum disulphide- filled polyamide 66, black



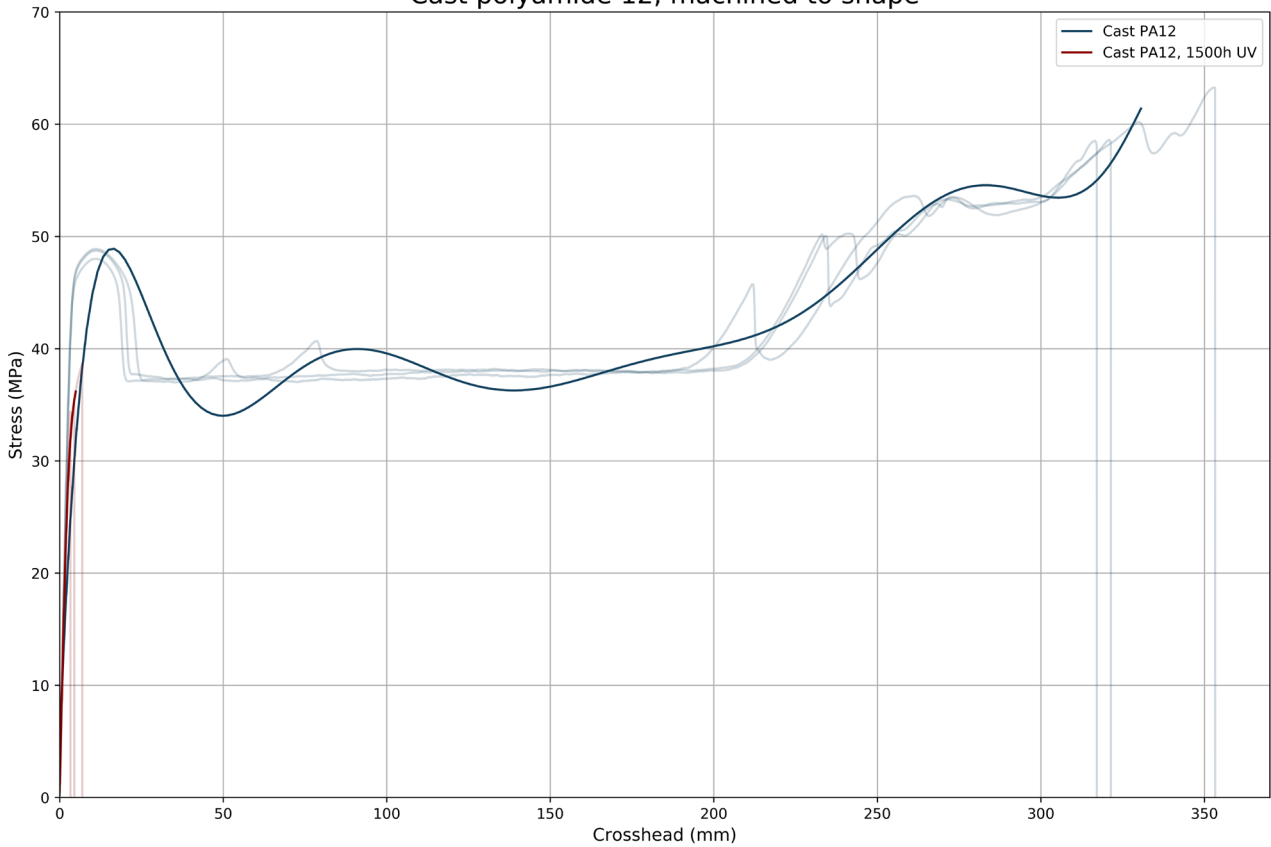
PA66MoS2	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,08	3,98	67,597	2,712	47,233	2552,863
Sample 2	10,14	3,97	66,957	2,695	44,655	3214,218
Sample 3	10,11	3,97	66,8	2,681	50,246	3271,77
		<b>Mean</b>	67,118	2,696	47,378	3012,951
		<b>Std. Dev.</b>	0,422	0,0155	2,798	399,485

PA66MoS2, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,15	3,94	54,431	2,177	36,938	1466,321
Sample 2	10,18	4,06	54,218	2,241	34,147	1916,268
Sample 3	10,16	4,05	58,62	2,412	27,346	2446,948
		<b>Mean</b>	55,756	2,277	32,81	1943,179
		<b>Std. Dev.</b>	2,482	0,121	4,934	490,867

# PA12, MACHINED, NATURAL



### Cast polyamide 12, machined to shape



PA12	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,09	4,02	58,507	2,373	317,091	1736,437
Sample 2	10,14	3,90	63,276	2,502	353,306	1762,195
Sample 3	10,09	3,95	58,599	2,336	321,43	1782,857
		<b>Mean</b>	60,127	2,404	330,609	1760,497
		<b>Std. Dev.</b>	2,727	0,0871	19,776	23,257

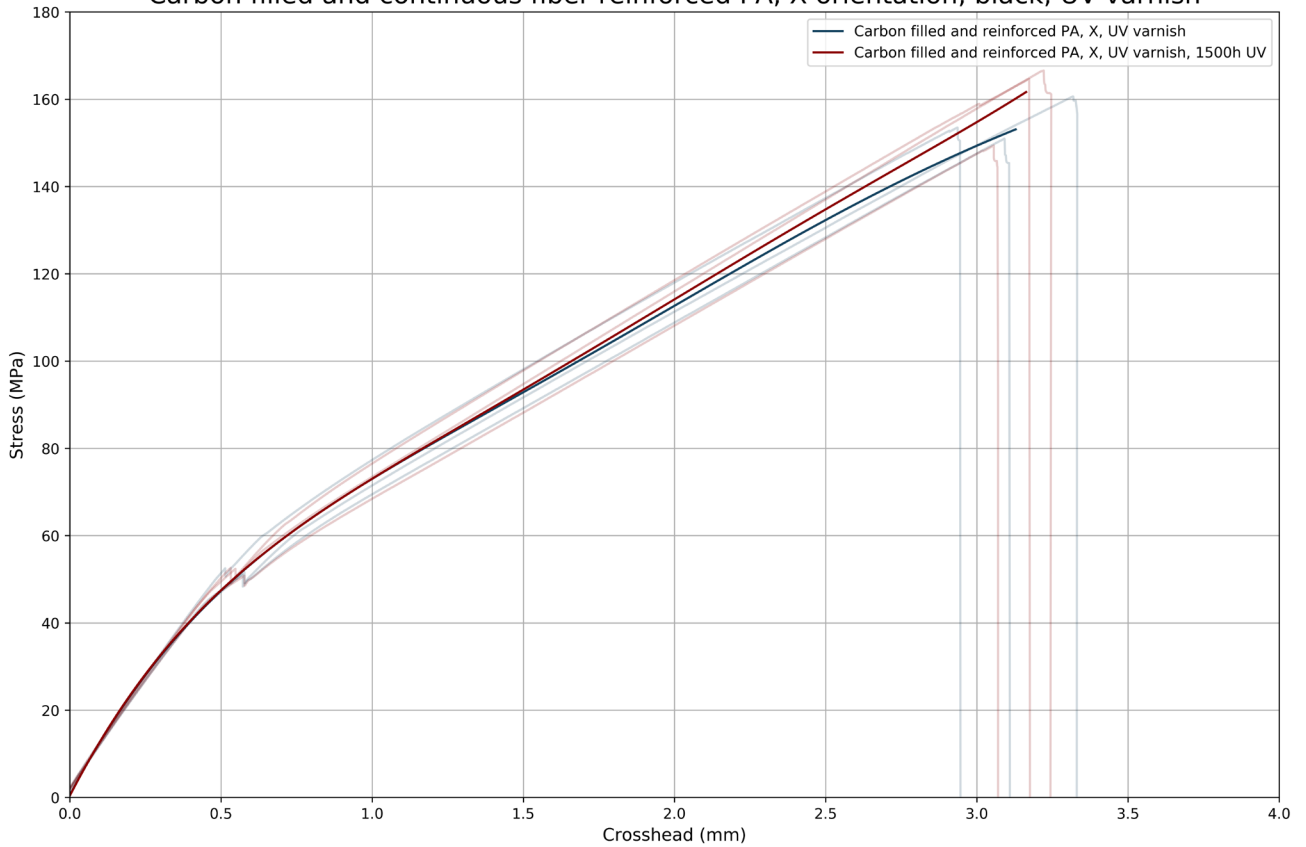
PA12, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,07	3,96	34,374	1,371	3,311	1465,447
Sample 2	10,09	3,88	38,674	1,514	6,929	1613,821
Sample 3	10,1	3,91	35,068	1,385	4,514	1591,463
		<b>Mean</b>	36,037	1,423	4,918	1556,911
		<b>Std. Dev.</b>	2,308	0,0788	1,823	79,995



# CARBON FILLED AND REINFORCED PA, UV VARNISH



Carbon filled and continuous fiber reinforced PA, X orientation, black, UV varnish



Carbon filled and reinforced PA	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,22	4,19	150,975	6,465	3,109	16395,951
Sample 2	10,12	4,17	153,509	6,478	2,946	16703,629
Sample 3	10,29	4,18	160,645	6,91	3,33	16565,992
		<b>Mean</b>	155,043	6,618	3,128	16555,191
		<b>Std. Dev.</b>	5,014	0,253	0,193	154,123

Carbon filled and reinforced PA, 1500h UV	Width (mm)	Thickness (mm)	Peak Stress (MPa)	Peak Load (kN)	Crosshead at break (mm)	Modulus (MPa)
Sample 1	10,14	4,12	166,58	6,959	3,243	16740,081
Sample 2	10,23	4,18	149,381	6,388	3,07	16359,514
Sample 3	10,2	4,12	164,662	6,92	3,176	16972,47
		<b>Mean</b>	160,208	6,756	3,163	16690,688
		<b>Std. Dev.</b>	9,425	0,319	0,0872	309,448