



## SYNLON (Modified NYLON6)

Properties	STAND ARD  ASTM	Unit	KA4601/ KA4701 (NY-6- General)	KA3703 (NY6 GF15 FR V2)	KA4702 (NY 6 - GF10)	KA4706 (NY 6 - GF30)	KA1706 (NY6 - FR GF 30)	KA4721 (NY-6 - 10% Graphite)	KA1701 (NY- 6 FR)	KA4703 (NY6- GF15)						
<b>Mechanical</b>																
Tensile Strength @ Yield 50 mm/min	D638	MPa	60 - 70	50 - 60	60-72	90 - 110	85-105	52 - 62	56-66	85 - 115						
Tensile Elongation @ Yield	D638	%	10 - 12	6 - 10	5-10	8 - 14	8-14	9 - 14	10-14	5 - 10						
Flexural Strength 5 mm/min	D790	MPa	110 - 130	85 - 95	90-125	140-155	140-155	90 - 110	90-110	120 - 150						
Flexural Modulus	D790	MPa	3000 - 4000	3000 - 5000	2700-4500	8000 - 10000	8000-10000	2800 - 3500	2800-3500	3800 - 4800						
Izod Notched Impact Strength	D256	J/m	65 - 90	90-120	30-45	45 - 65	45-65	50 - 75	50-70	60 - 75						
<b>Thermal</b>																
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	°C	65 - 75	72 - 90	85-95	195 - 207	195-207	65 - 75	68-75	85 - 95						
Vicat Softening Temperature (B)	D 1525	°C	220 - 230	-	----	240 - 250	240-250	210 - 220	225-240	-						
<b>Others</b>																
Density	D 792	gms/ cc	1.13- 1.16	1.23 - 1.26	1.25- 1.29	1.35- 1.45	1.35- 1.45	1.14- 1.18	1.13- 1.16	1.23 - 1.25						
Flammability Test @ 3mm thickness	UL 94		----	V2	---	----	V0	-----	V0	-----						
Filler Content	D 5630	%	-	13 - 17	9-11	29 -31	29 -31	9 - 11	-	13 - 17						

Typical values represent an average for the samples tested using standard procedures.

The data indicated are intended as guides and do not reflect product specifications for any particular property

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## SYNLON (Modified NYLON 6,6)

Properties	STAND ARD  ASTM	Unit	JA4601/ JA4701 (NY-6,6- General)	JA4702 (Nylon6, 6 GF 10)	JA4703 (NY- 6,6 GF15)	JA4704 (Ny-6,6 GF20)	JA4606/J A4706 (NY-6,6 GF30)	JA4708 (NY-6,6 GF40)						
<b>Mechanical</b>														
Tensile Strength @ Yield 50 mm/min	D638	MPa	70 - 80	80-100	90 - 110	90 - 110	95 - 120	85-120						
Tensile Elongation @ Yield	D638	%	9 - 15	7-13	7 - 13	7 - 13	7 - 13	6-11						
Flexural Strength 5 mm/min	D790	MPa	120 - 130	130-150	140-160	140-160	160-175	110-185						
Flexural Modulus	D790	MPa	4000 - 5000	6000- 8000	6000 - 8000	6000 - 8000	8000 - 11000	8600- 11600						
Izod Notched Impact Strength	D256	J/m	65 - 80	50-60	50 - 60	50 - 60	45 - 55	105-120						
<b>Thermal</b>														
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	°C	85 - 95	909-100	90 - 100	90 - 100	220-230	220-235						
Vicat Softening Temperature (B)	D 1525	°C	245 - 255	255-265	255-265	255-265	250-260	250-265						
<b>Others</b>														
Density	D 792	gms/ cc	1.13- 1.15	1.22- 1.27	1.22- 1.27	1.22- 1.27	1.35- 1.45	1.40- 1.48						
Flammability Test @ 3mm thickness	UL 94		----		----	----	-----	----						
Filler Content	D 5630	%	-	9 - 11	14 - 16	19 - 21	29 - 31	39 - 41						

Typical values represent an average for the samples tested using standard procedures.

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