

HALOGEN-FREE FLAME RETARDANT TPU / TPE / POE

GRADE	PROPERTY	Density	MFI	Tensile Strength	Elongation at break	LOI	Flame Retardancy	Applications
	STANDARD	ASTM D792	ASTM D1238	ASTM D638	ASTM D638	ASTM D2863	UL94	
	UNITS	g/cm ³	g/10min	MPa	%	%	%	
SYNTHANE		Synthane is a sheathing & jacketing material for mobile phone cables, USB wire, audio, fibre optic cables, data transmission system, EV charging cables, LV/MV Tower and Loop Cables						
Synthane A8L-2895HM	1.19	-	28	650	-	-	-	Sheathing and jacketing material for telecommunication cables and wire (Polyester TPU, half matte-based)
Synthane A8L-1990G	1.18	-	30	660	-	-	-	Sheathing and jacketing material for electronic cables and wire (Polyester TPU, Glossy based)
Synthane A8L-5091M	1.19	-	28	700	-	-	-	Sheathing and jacketing material for electronic cables and wire (Polyester TPU, matte-based)
Synthane A8L-8895G	1.11	-	31	510	-	-	-	Sheathing and jacketing material for electronic cables and wire (Polyether TPU, glossy-based)
Synthane A8L-1895M	1.11	-	31	500	-	-	-	Sheathing and jacketing material for electronic cables and wire (Polyether TPU, matte-based)
Synthane A8L-1890G	1.18	-	30	620	-	-	-	Sheathing and jacketing material for telecommunication cables and wire (Polyester TPU, glossy-based)
Synthane A8L-1895G FR	1.24	-	20	570	32	V0	V0	HFFR TPU for Automotive EV charging cables and Windmill – LV/MV Tower and Loop Cable (Polyester TPU, glossy-based)
Synthane A8L-4990HM FR	1.21	-	27	530	26	V2	V2	HFFR TPU for Automotive EV charging cables and Windmill – LV/MV Tower and Loop Cable (Polyester TPU, half matte-based)
Synthane A8L-1990M FR	1.20	-	14	400	31	V0	V0	HFFR TPU for Automotive EV charging cables and Windmill – LV/MV Tower and Loop Cable (Polyether TPU, matte-based)
Synthane A8L-1990HM FR	1.19	-	15	440	27	V2	V2	HFFR TPU for Automotive EV charging cables and Windmill – LV/MV Tower and Loop Cable (Polyether TPU, half matte-based)

SYNFLAME							
Synflame is a low smoke, halogen free, flame retardant thermoplastic material produced using unique non-toxic, non-hazardous and good processability.							
Synflame A9L-C1085N	1.04	1	13	650	-	V0	TPE HFFR used for insulation with excellent high & low temp resistance, weather & UV resistance, oil resistance, easy processing with excellent surface
Synflame A9L-C5817N	1.03	2	14	670	-	V0	TPE HFFR used for sheathing and jacketing with excellent high & low temp resistance, weather & UV resistance, oil resistance, easy processing with excellent surface
Synflame B9L-9013 UV	1.51	4	15	200	39	-	General purpose POE thermoplastic HFFR formulation for cable extrusion for insulation and sheathing with high flame resistance and excellent crack resistance
Synflame B9L-9032 UV	1.54	4	13	160	42	-	POE thermoplastic HFFR formulation for cable extrusion for insulation and sheathing with higher LOI for higher flame resistance and good crack resistance
Synflame B9L-9050 UV	1.60	4	10	125	44	-	POE thermoplastic HFFR formulation with outstanding LOI for excellent flame resistance and it is used for B2CA, CPR requirement for sheathing application

ADVANCED POLYMER COMPOUND – POLYAMIDE/PVDF/PEBAX/PEEK

NYCOLON Nylon is a polyamide-based thermoplastic. This compound offers outstanding chemical, oil and fuel, hydrolysis resistance, and excellent physical and mechanical performances, resulting in tubes and sheathings with optimal harsh weather resistance and termite resistance.							
Nycolon A6L-12 UV M BLACK	1.02	8	-	> 50	-	-	Nylon 12 special compound suitable for flexible pipes, tubes and sheathing of "technical cables" with gas-tight with anti-termite properties
Nycolon A6L-12 UV	1.02	-	-	300	-	-	Nylon 12 special compound suitable for pipes, tubes and sheathing of "technical cables" with gas-tight with anti-termite properties
Nycolon A6L-12 PHL	1.01	6	-	> 50	-	-	PA12 material low plasticized, heat and UV stability, recommended for use in SAE J844 and DIN 74324 regulations for automotive hoses
Nycolon A6L-12 PHL	1.01	< 5	-	> 50	-	-	PA12 material plasticized, heat and UV stability, recommended for use in SAE J844 and DIN 74324 regulations for automotive hoses
Nycolon A6L-12 P26LVUK	1.03	> 20	-	> 50	-	-	PA12 low viscosity, plasticized heat and UV stability
Nycolon A6L-12 MP	1.02	-	50	300	-	-	Plasticized thermoplastic PA12 heat and UV stabilized compound that offers outstanding chemical oil, fuel and hydrolysis resistance. Flexible and suitable for big-sized cables.
Nycolon A6L-12 HIPHL	1.01	< 5	-	> 50	-	-	Plasticized thermoplastic PA12 material, high impact, heat and UV stability, recommended for use in SAE J844 and DIN 74324 regulations
Nycolon A6L-11	1.04	7	41	200	-	HB	Polyamide 11 resin compound used for wire and cable and special tubing application

NYFLON Nylon is a thermoplastic PVDF base compound used as insulation on electrical wires and thin wall insulation for high-temperature applications up to 150 degrees centigrade							
Nyflon A3L-0512	1.78	10	40	300	44	V0	Thermoplastic PVDF compound used as insulation on electrical wires for its flexibility, low thermal conductivity, high chemical corrosion resistance and high dielectric strength

NYFLEX Nyflex is a high performance PEBAX material with various Shore D hardness particularly suitable when sub-ambient temperature requirement is of the utmost important needs in wire and cable industry							
Nyflex 1004	1.22	6	34	700	20	-	High performance PEBAX material with a shore D of 56
Nyflex 2104	1.24	5	40	500	20	-	High performance PEBAX material with a shore D of 55, medium modulus, extrusion grade
Nyflex 3008	1.24	5	32	600	20	-	High performance PEBAX material with a shore D of 53
Nyflex TX 2500	1.09	25	18	750	20	HB	High performance PEBAX material with a shore D of 25
Nyflex TX 3500	1.12	35	27	850	20	HB	High performance PEBAX material with a shore D of 35
Nyflex TX 3500A	1.12	34	26	858	-	-	High performance PEBAX material with a shore D of 35
Nyflex TX 4600	1.16	34	34	792	20	HB	High performance PEBAX material with a shore D of 46
Nyflex TX 5500	1.19	20	48	688	-	HB	High performance PEBAX material with a shore D of 55
Nyflex TX 5600	1.19	30	45	700	20	HB	High performance PEBAX material with a shore D of 56
Nyflex TX 5800	1.21	23	48	587	20	HB	High performance PEBAX material with a shore D of 58
Nyflex TX 6300	1.23	23	49	556	20	HB	High performance PEBAX material with a shore D of 63
Nyflex TX 7200	1.25	19	50	500	20	HB	High performance PEBAX material with a shore D of 72

NYPEEK Nypeek has long-term oxidative thermal stability for use in high temperature environments over prolonged durations for wire and cable applications for extreme environments.							
Nypeek PEEK M	1.30	-	100	45	-	V0	An ultra-high-performance, high- temperature up to -55 to 240 degrees centigrade, semi-crystalline material with excellent machinability, mechanical strength, dimensional stability, creep resistance and hydrolysis resistance, low hygroscopic and low thermal expansion coefficient. Suitable for use in magnet and wire insulation in oil & gas, automotive, aerospace, and electrical industries.

SYNERCLEAN Synerclean is a special purging compound designed for CV line application MV and HV, facilitating batch cleaning, shut down and restart processes. It cleans up screw, head and die effectively to reduce machine downtime.							
Synerclean B2L-1034	1.07	-	-	-	-	-	Organic high-efficiency purging compound for MV & HV CCV line
Synerclean B2L-1036	1.09	-	-	-	-	-	Inorganic high-efficiency purging compound for MV & HV CCV line

SYNSTART Synstart is a low-density thermoplastic unfilled polyethylene compound, designed for starting-up medium/high-voltage cable insulation extruders							
Synstart B2L-1035 LR	0.92	2	-	-	-	-	Low-reactivity start-up compound for MV & HV CCV line

PERFORMANCE ADDITIVES

SYNFLOW	Synflow is used to improve the processing performance and modify surface properties, improving the processing performance, smoothen surface, reducing pre-crosslinking rate, and reduces extruder cleaning cycle.						
Synflow C 802	-	-	-	-	-	-	Pelletized formulation with 50% ultra-high molecular weight siloxane polymer dispersed in a universal carrier and it is used as a processing aids to improve cable surface and processing output
Synflow C 803	-	-	-	-	-	-	Concentrated formulation with 65% ultra-high molecular weight siloxane polymer dispersed in a universal carrier and it is used as a processing aids to improve cable surface and processing output

UV 70333	UV70333 is a concentrated light stabilizer that offers excellent UV protection for Wire and Cables formulation						
Synbatch UV Masterbatches 70333	-	-	-	-	-	-	General grade light stabilizer masterbatch with a synergistic combination of a polymeric HALS and UV absorber used in sheathing for wire and cable formulation for outstanding UV protection

MAXIRODENT	Maxirodent is a High Performance Anti-Rodent masterbatch concentrate, non-toxic, non-hazardous based on aversion repellent basis						
Maxirodent AR3303	0.95	3	-	-	-	-	High-performance, anti-rodent masterbatch concentrate that is non-toxic and non-hazardous based on aversion-repellece with low smell
MATERMITAN	Matermitan is a High Performance Anti-Termite masterbatch concentrate, non-toxic, non-hazardous based on aversion repellent basis						
Matermitan AT3300	1.21	8	-	-	-	-	High-performance, anti-termite masterbatch concentrate that is non-toxic and non-hazardous based on aversion-repellece with low smell
MAXICOMBI	Maxicombi is a High Performance Anti-Rodent cum Anti-Termite masterbatch concentrate, non-toxic, non-hazardous based on aversion repellent basis						
Maxicombi AT 3300/AR3303	1.24	5	-	-	-	-	High-performance, anti-rodent cum anti-termite masterbatch concentrate that is non-toxic and non-hazardous based on aversion-repellece with low smell