



Product Guide Speciality Compounds & Alloys

NUYORK *MARKETING & CONSULTING CORP.*

2016

PC Series



Material	Grade no.	Properties											Characteristics	Applications	
		Physical		Mechanical						Thermal		Flammability			
		Density	Rockwell	Tensile	Tensile	Tensile	Flexural	Flexural	Izod Impact Strength(Notched)		HDT				MFI (2.16kg)
			hardness	Strength	Elongation	Modulus	Strength	Modulus	1/8"	1/4"					250°C
	Unit	g/cm³	R scale	Kgf/cm²	%	Kgf/cm²	Kgf/cm²	Kgf/cm²	J/m	J/m	°C	g/10min			
	Method	ASTM D792	ASTM D785	ASTM D638	ASTM D638	ASTM D638	ASTM D790	ASTM D790	ASTM D256		ASTM D648	ASTM D1238	UL94		
PC non reinforced	SKYTRA5300I	1.20		630	150.0		1,000	23,000	75				130		11
PC non reinforced	SKYTRA5301I	1.20		630	130.0		980	24,000	70				130		22
PC, Chemical Resistance	SKYTRA5300C	1.20		580	130		980	22,000	70				130		13
PC, Chemical Resistance	SKYTRA5301C	1.20		570	130		970	21,500	60				130		25
FR PC	SKYTRA5300F	1.20		630	120		980	22,000	72				118		13
FR PC	SKYTRA5301F	1.20		620	120.0		940	23,400	65				115		25
PC/GF20%	SKYTRA5310	1.35		1000	5.0		1,600	55,000	10				140		10
PC/GF20%	SKYTRA5311	1.35	115	960	5		1,350	57,000	60		125		HB	GF Reinforced	Automotive Part, E/E, Industrial etc
PC/GF30%	SKYTRA5320	1.43		1200	4		1,800	75,000	11				140		14
PC/GF20%, High Impact	SKYTRA5310F	1.35		900	5.0		1,500	46,000	19				144		5
PC/GF30%, High Impact	SKYTRA5320F	1.45		1100	4.0		1,700	70,000	18				140		12
PC+MF	SKYTRA5310MF	1.25		570	100		900	24,000	55				125		13
PC/ABS	SKYTRA5392-00	1.14		580	>100		790	21,500	65				113		

PC Series



Material	Grade no.	Properties											Characteris tics	Applications	
		Physical		Mechanical						Thermal					
		Density	Rockwell	Tensile	Tensile	Tensile	Flexural	Flexural	Izod Impact Strength(Notche d)	HDT	MFI (2.16kg)	Flamm ability			
			hardness	Strength	Elongation	Modulus	Strength	Modulus	1/8"	1/4"		250°C			
	Unit	g/cm³	R scale	Kgf/cm²	%	Kgf/cm²	Kgf/cm²	Kgf/cm²	J/m	J/m	°C	g/10min			
Method	ASTM D792	ASTM D785	ASTM D638	ASTM D638	ASTM D638	ASTM D790	ASTM D790	ASTM D256	ASTM D648	ASTM D1238	UL94				
PC/ABS, High Impact	SKYTRA5392- ool	1.14		580	>100		870	22,000	70			114			
PC/ABS, Metal Plating	SKYTRA5392- ooMP	1.10		440	100.0		730	19500	45			98			
PC/ABS+GF20%	SKYTRA5392-10	1.30		950	4.0		1,400	54,000	10			116			
PC/ABS+GF30%	SKYTRA5392- 20	1.38		1000	4.0		1,700	75,000	10			118			
FR PC Alloy-NH	SKYTRA5300NF	1.21	119	650	>100		1,000	23,000	510		135	14	V-0	Non-Halogen Flame Retardant	Automotive Part, E/E, Industrial etc
FR PC/GF 10%	SKYTRA5310F	1.24	123	730	11		1,350	36,500	85		140	9	V-0	GF Reinforced, Flame Retardant	Automotive Part, E/E, Industrial etc
FR PC/GF 10%	SKYTRA5311F	1.24	114	660	7		1,100	41,000	60		110		V-0	GF Reinforced, Flame Retardant	Automotive Part, E/E, Industrial etc
FR PC/GF 20%	SKYTRA5312F	1.34	121	1145	6.0		1,700	61,000	100		145	6	V-0	GF Reinforced, Flame Retardant	Automotive Part, E/E, Industrial etc
FR PC/GF 30%	SKYTRA5320F	1.42	120	990	4.0		1,450	71,000	75		135		HB	GF Reinforced	Automotive Part, E/E, Industrial etc
PC Alloy Impact	SKYTRA5301I	1.13	114	605	>100		890	24,500	550		105	5	HB	High Impact	Automotive Part, E/E, Industrial etc
FR PC/ABS+GF20%	SKYTRA5392- 10F	1.35		950	4.0		1,400	58,000	7				120		

PA Series



Material	Grade no.	Properties											Characteristics	Applications	
		Physical		Mechanical						Thermal					
		Density	Rockwell	Tensile	Tensile	Tensile	Flexural	Flexural	Izod Impact Strength(Notched)		HDT	MFI (2.16kg)			Flamm ability
			hardness	Strength	Elongation	Modulus	Strength	Modulus	1/8"	1/4"		250°C			
		Unit	g/cm³	R scale	Kgf/cm²	%	Kgf/cm²	Kgf/cm²	Kgf/cm²	J/m	J/m	°C			g/10min
	Method	ASTM D792	ASTM D785	ASTM D638	ASTM D638	ASTM D638	ASTM D790	ASTM D790	ASTM D256		ASTM D648	ASTM D1238	UL94		
PA6 High Impact	SKYTRA5500I	1.07	112	500	100		720	18,000	N.B		180		HB	High Impact	Cargo Bracket
PA6/GF20%	SKYTRA5510	1.26	120	1380			1,800	56,800	65		205		HB	GF Reinforced	Rain Sensor Cover
PA6/GF30%	SKYTRA5520	1.36	121	1750	3.2		2,400	78,000	120		215		HB	GF Reinforced	Bracket, Hanger, Engine cover etc.
PA6/MF25%	SKYTRA5511	1.31	112	530	13.0		790	32,000	120		180		HB	MF Reinforced	Wheel cover etc.
PA6/GF+MF20%	SKYTRA5512	1.28	120	1050	3.5		1,580	49,700	55		195		HB	GF/MF Reinforced	Engine Beauty cover
PA66 High Impact	SKYTRA5600I	1.07	110	510	100		670	12,900	N.B		260		HB	High Impact	Roof Rack cover etc.
PA66/GF15%	SKYTRA5610	1.24	121	1280	4.0		1,850	55,000	70		235		HB	GF Reinforced	AUX BO,X(Main body), Engine Beauty cover
PA66/GF30%	SKYTRA5620	1.37	121	1850	3.2		2,500	86,000	120		250		HB	GF Reinforced	Rad Tank, Gear shift lever, Inner Lamp back cover
PA66/GF17/MF21%	SKYTRA5640	1.46	120	1250			1,760	75,000	60		240		HB	GF/MF Reinforced	Fan/Shroud
PA66/PTFE	SKYTRA W30PT	1.50		1,100	1.5		1,700	85,000	5		245		HB	Anti-Abrasion	Gear lever link
PA66/MoS2	SKYTRA W35TMS	1.41		2,000	3.0		2,300	96,000	10		255		HB	Anti-Abrasion	Automotive Part
PA66/PTFE	SKYTRA W40PT	1.61		800	1.5		1,100	65,000	5		195		HB	Anti-Abrasion	Gear lever link
PA/ABS/GF15%	SKYTRA5592-10I	1.20	118	1070			1,340	42,300	60		200		HB	GF Reinforced	Gear Shift Knob etc.
Bio-PA alloy	SKYTRA 3400 F	1.14	118	650	-		1,050	25,000	-	30	80		HB	High Gloss, Deep Balck	

PP Series



Material	Grade no.	Properties											Characteristics	Applications		
		Physical		Mechanical						Thermal						
		Density	Rockwell	Tensile	Tensile	Tensile	Flexural	Flexural	Izod Impact Strength(Notched)		HDT	MFI (2.16kg)			Flammability	
			hardness	Strength	Elongation	Modulus	Strength	Modulus	1/8"	1/4"		250°C				
		Unit	g/cm³	R scale	Kgf/cm²	%	Kgf/cm²	Kgf/cm²	Kgf/cm²	J/m	J/m	°C			g/10min	
		Method	ASTM D792	ASTM D785	ASTM D638	ASTM D638	ASTM D638	ASTM D790	ASTM D790	ASTM D256	ASTM D648	ASTM D1238			UL94	
PP non reinforced	SKYTRA9100P	0.90		270	80		370	14,500	70		114	22				
PP/GF20%	SKYTRA9110G	1.03		750	<10		1,000	35,000	50		150	8				
PP/GF30%	SKYTRA9120G	1.14		870	6		1,200	56,000	80		155	7				
PP/MF20%	SKYTRA9110M	1.05		370	25		490	28,000	40		140	10				
PP/MF20% High Impact	SKYTRA9110MI	1.05		300	45		450	27,000	60		137	10				
PP/MF30%	SKYTRA9120M	1.13		350	20		560	35,000	30		140	10				
PP/MF30% High Impact	SKYTRA9120MI	1.14		300	30		410	32,000	45		137	10				
PP/MF40%	SKYTRA9140M	1.20		340	10		570	44,000	25		145	10				
FR PP/MF15%	SKYTRA9110F	1.32		280	20		400	25,000	50		130	6				
PP/GF+MF40%	SKYTRA9140	1.20	105	800	4.0		1,070	56,300	115		155		HB	GF/MF Reinforced	Engine Beauty cover	
PP/LGF40%	SKYTRA9140LF	1.20	110	1530			2,040	81,600	250		163		HB	Long Glass Fiber Reinforced	FEM Carrier etc.	

ABS Series



Material	Grade no.	Properties											Characteristics	Applications	
		Physical		Mechanical						Thermal					
		Density	Rockwell	Tensile	Tensile	Tensile	Flexural	Flexural	Izod Impact Strength(Notched)		HDT	MFI (2.16kg)			Flammability
			hardness	Strength	Elongation	Modulus	Strength	Modulus	1/8"	1/4"		250°C			
		Unit	g/cm³	R scale	Kgf/cm²	%	Kgf/cm²	Kgf/cm²	Kgf/cm²	J/m	J/m	°C			g/10min
	Method	ASTM D792	ASTM D785	ASTM D638	ASTM D638	ASTM D638	ASTM D790	ASTM D790	ASTM D256		ASTM D648	ASTM D1238			UL94
ABS+GF20%	SKYTRA9210	1.19		850	4		1,300	55,000	9				98		
ABS+GF30%	SKYTRA9220	1.28		900	3		1,450	75,000	8				99		
FR ABS+GF20%	SKYTRA9210F	1.34		860			1,200	50,000	6				102		

PBT Series



Material	Grade no.	Properties											Characteristics	Applications	
		Physical		Mechanical							Thermal				Flammability
		Density	Rockwell	Tensile	Tensile	Tensile	Flexural	Flexural	Izod Impact Strength(Notched)		HDT	MFI (2.16kg)			
	Unit	g/cm³	R scale	Kgf/cm²	%	Kgf/cm²	Kgf/cm²	Kgf/cm²	J/m	J/m	°C	g/10min			
Method	ASTM D792	ASTM D785	ASTM D638	ASTM D638	ASTM D638	ASTM D790	ASTM D790	ASTM D790	ASTM D256	ASTM D648	ASTM D1238	UL94			
FR PBT	SKYTRA5100F	1.43	(120)	635	30.0		1,200	31,000	25				V-o	FR	Connector, Automotive Part, E/E, Industrial
FR PBT-NH	SKYTRA5101NF	1.42	(118)	625	20.0		1,100	28,000	25				V-o	Non-Halogen FR	Connector, Automotive Part, E/E, Industrial
PBT/GF 15%	SKYTRA5110	1.52	90	1,100	4.1		1,600	63,000	45				HB	GF Reinforced	Automotive Part, E/E, Industrial
PBT/GF 30%	SKYTRA5120	1.63	92	1,300	3.2		1,850	85,000	65				HB	GF Reinforced	Automotive Part, E/E, Industrial
FR PBT/GF 15%	SKYTRA5110F	1.52	90	1,000	4.0		1,500	59,000	55				V-o	GF Reinforced, FR	Automotive Part, E/E, Industrial
FR PBT/GF 30%	SKYTRA5120F	1.65	91	1,300	3.2		1,850	84,000	60				V-o	GF Reinforced, FR	Automotive Part, E/E, Industrial
PBT/PC alloy	SKYTRA5101	1.34		790	5.3		1,300	40,500	115				HB	PBT/PC alloy	Automotive Part, E/E, Industrial
PBT/PC High Impact	SKYTRA5300I	1.20	111	565	>100		810	80,500	NB				HB	High Impact	Automotive Part, E/E, Industrial
PBT/PC/GF 15%	SKYTRA5111	1.42	90	945	4.1		1,500	49,500	35				HB	GF Reinforced	Automotive Part, E/E, Industrial
PBT/PET High Impact	SKYTRA5102I	1.44	89	1,050	4.0		1,620	60,000	45				HB	High Impact	Automotive Part, E/E, Industrial
PBT/PET/GF 15%	SKYTRA 5210	1.43		1,100	3		1,500	49,000		52	190	0	HB at	GF Reinforced	MWO
PBT/PET/GF 30%	SKYTRA5121	1.53	89	1,180	3		1,750	80,000	55				HB	GF Reinforced	Automotive Part, E/E, Industrial
PBT/PET/GF 50%	SKYTRA 5240	1.75	-	1,450	1.2	5,800	1,950	130,000	85	50	180	60	V-1 at	High Modulus	
PBT/PCTG/GF 30%	SKYTRA 5122	1.52	116	980	2.2	81,800	1,550	64,600	87		150	14	HB		
PBT/PCTG/GF 30%	SKYTRA 5122NF	1.52	116	870	2.0	80,900	1,430	64,400	84		143	13	V-o	Non-Halogen FR	
PBT/PTFE	SKYTRA PT112PB	1.42		450	5.0		700	23,000	5		70		HB	Anti-Abrasion	Bearing Part

Others



- PET Compounds & Alloys
- PCT Compounds & Alloys
- PPS Compounds & Alloys
- PETG Compound & Alloys
- Bio Co Polyester Compound & Alloys

Thank You !

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