

	SYNOFIN (Modified PPCP)												
Properties	STD. ASTM	Unit	LA4601/470 1 General (Colou red)	Speciality Grades									
				LA1701 FR V0	LA3701 FR V2	LA4702 GF10	LA4703 GF15	LA4704 GF20	LA4706/ LA4606 GF30	LA4708 GF40	LA 1706 GF30 FR V0	LD4601 (Gen Col with UV)	LD4613 20Talc
Flow													
Melt Flow Index@230C,2.16 Kg load	D1238	gms/10 min	7-14	7-14	8-14	7 - 11	4 - 9	4 - 8	6-10	4 - 8	8-16	10 - 13	10 - 13
Mechanical													
Tensile Strength @ Yield 50 mm/min	D638	MPa	18 - 24	18 - 24	18 - 24	22 - 27	22 - 30	27 - 32	27 - 33	75 - 90	38 -48	18 - 23	18 - 22
Tensile Elongation @ Yield	D638	%	8-14	8-14	8-14	7 - 9	7 - 10	6 - 9	6 - 9	4 - 6	5- 8	10 - 13	7 - 9
Flexural Strength 5 mm/min	D790	MPa	28 - 34	28 - 34	28 - 34	38 - 45	38 - 44	42 - 46	44 - 50	90 - 110	50 -60	24 - 28	24 - 28
Flexural Modulus	D790	MPa	900 -1400	1000 -2000	1200-2000	1200 - 1500	3000-3800	3500-4000	4800 -6000	5500-7000	--	750 - 1000	800 -1200
Izod Notched Impact Strength	D256	J/m	80 - 200	70 - 100	70 - 100	65 - 75	102 - 110	94 - 104	92 - 100	96 - 100	120-160	400 - 530	300 - 500
Thermal													
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	60 - 70	70 - 80	62 - 70	60 - 67	120 - 125	125- 130	130 - 138	140 - 148	90-110	56 - 62	65 - 72
Vicat Softening Temperature (B)	D 1525	C	140 - 147	125 -148	142- 150	143- 150	143 - 150	146 - 152	150 - 155	-	--	100 - 110	-
Others													
Density	D 792	gms/cc	0.89-0.94	1.00-1.15	0.94-1.00	0.95-0.98	0.94-1.00	0.98-1.02	1.00-1.08	1.19-1.23	1.28-1.32	0.89-0.94	1.00-1.08
FlammabilityTest @3mm thickness	UL 94		-----	V0	V2	-----	-----	-----	-----	--	V0	HB	HB
Filler Content	D 5630	%	-	-	-	9-11	14 - 16	19 -21	29 - 31	39 - 41	29-31	NA	19-21
Hardness	D 2240	Shore D	-	-	-	-	-	-	-	-	--	NA	

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		SYNOFIN (Modified PPCP)											
Properties	STD. ASTM	Unit	Speciality Grades										
			LA4710 Talc Filled 5	LA4711 Talc Filled 10	LA4712 Talc Filled 15	LA4713 /LA4613 IM Talc Filled 20	LA4714 Talc Filled 25	LA4715 Talc Filled 30	LA4716 Talc Filled 40	LA1713 FR Talc Filled 20	LA4615 Talc Filled 30		
Flow													
Melt Flow Index @ 230C & 2.16 Kg load	D 1238	gms/ 10 min	11-14	9-12	9-12	6-10	7-14	7-10	9-12	8-14	9-12		
Mechanical													
Tensile Strength @ Yield 50 mm/min	D 638	MPa	23-27	20-23	24 - 35	18 - 22	18-24	21 - 23	24-32	18 - 22	19-25		
Tensile Elongation @ Yield	D638	%	9-11	7-9	8-12	12-16	8-14	4-7	8-12	6-10	6-11		
Flexural Strength 5 mm/min	D790	MPa	--	38 - 44	30 -35	22 - 26	38-50	30 - 38	34-40	30 - 34			
Flexural Modulus	D790	MPa	--	1300-1500	1350-1500	1300- 1400	1600-2700	1500 - 1800	1450-1900	1350-1450			
Izod Notched Impact Strength	D256	J/m	95-105	90-110	76 - 96	90-120	70-90	60 - 80	48-64	62 - 68	60-70		
Thermal													
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	60-65	60-65	65 - 80	65 - 72	80-95	66 - 75	65-80	75 - 80	62-72		
Vicat Softening Temperature (B)	D 1525	C	--	-	145 -155	140 - 145	140-150	-	135-160	145 - 150			
Others													
Density	D 792	gms/cc	0.89-0.94	0.94-0.96	0.96-1.05	1.00 - 1.08	1.10-1.15	1.10 - 1.15	1.12-1.20	1.02- 1.08	1.08-1.10		
Flammability Test @ 3mm thickness	UL 94		HB	HB	----	-----	---	HB	-----	V0			
Filler Content	D 5630	%	4 - 6	9.5 - 10.5	14 - 16	19 - 21	24 - 26	28 - 32	39 - 41	19 - 21	29 - 31		
Hardness	D 2240	Shore D	-	-	-	-	-	-	-	-	-		

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		SYNOFIN (Modified PPCP)																						
Properties	STD. ASTM	Unit	Speciality Grades																					
			LA4742 Mineral Filled 15	LA4743 Mineral Filled 20	LA4744 Mineral Filled 25	LA4633 40% CaCo3																		
Flow																								
Melt Flow Index @ 230C & 2.16 Kg load	D 1238	gms/ 10 min	7 - 14	7 - 14	7 - 14	8 - 12																		
Mechanical																								
Tensile Strength @ Yield 50 mm/min	D 638	MPa	20 - 30	20 - 30	18 - 24	22 - 25																		
Tensile Elongation @ Yield	D638	%	8 - 14	8 - 14	8 - 14	5 - 8																		
Flexural Strength 5 mm/min	D790	MPa	35 - 45	35 - 47	26 - 32	27 -30																		
Flexural Modulus	D790	MPa	1500- 2500	1500-2500	1200-2000	2650 - 3200																		
Izod Notched Impact Strength	D256	J/m	70 - 100	70 - 95	65 - 90	30 - 60																		
Thermal																								
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	74 - 85	78 - 90	80 - 95	65 - 80																		
Vicat Softening Temperature (B)	D 1525	C	125-158	135-150	140- 150	-																		
Others																								
Density	D 792	gms/cc	0.98-1.06	1.00-1.08	1.10-1.15	1.21 - 1.24																		
Flammability Test @ 3mm thickness	UL 94		----	----	---	HB																		
Filler Content	D 5630	%	14 - 16	19 - 21	24 - 26	39 - 41																		
Hardness	D 2240	Shore D	-	-	-	-																		

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	SYNOFIN (Modified PPCP)													
Properties	STD. ASTM	Unit	Speciality Grades											
			LB4601/ LB4701 LowFlow	LB4702 GF 7.5	LB4704 GF20	LB 4606 GF30	LB4613/ LB4713 UV Talc 20	LB4715/ Talc 30	LB3701 FR V2	LB1713 FR VO Talc 20				
Flow														
Melt Flow Index @ 230C & 2.16 Kg load	D 1238	gms/ 10 min	2 - 6	4 - 7	3.5 - 7	3 - 7	2 - 6	2 - 6	3 - 6	3 - 5				
Mechanical														
Tensile Strength @ Yield 50 mm/min	D 638	MPa	18-32	32 - 40	35 - 48	35 - 47	27-31	25 - 30	27 - 31	28 - 32				
Tensile Elongation @ Yield	D638	%	8 - 12	7 - 10	5 - 9	4 - 8	5 - 9	4 - 7	9 - 13	6 - 10				
Flexural Strength 5 mm/min	D790	MPa	28-34	35 - 42	42 - 60	42 - 65	32-38	30 - 38	28 - 32	30 - 35				
Flexural Modulus	D790	MPa	900 -1400	1700 -2700	2500 -3500	3000 -6000	2300-3000	2700 - 3600	1100-1500	2200-3000				
Izod Notched Impact Strength	D256	J/m	90-150	70 - 100	60 - 90	65 - 90	60-70	50 - 70	70 - 100	60 - 75				
Thermal														
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	50-60	64 - 75	64 - 90	-	68-75	70 - 84	60 - 70	65 - 80				
Vicat Softening Temperature (B)	D 1525	C	140-147	110 - 125	-	150 - 155	-	-	-	140 - 150				
Others														
Density	D 792	gms/cc	0.89-0.94	0.96- 0.98	1.19-1.23	1.00- 1.08	1.23-1.25	1.26 - 1.28	0.94-0.98	1.20- 1.25				
Flammability Test @ 3mm thickness	UL 94		-----	HB	-	-----	---	---	V2	VO				
Filler Content	D 5630	%	-	7 - 13	19 - 21	29 - 31	19 - 21	28 - 32	-	19 -21				
Hardness	D 2240	Shore D	-	NA	--	-	-	-	-	NA				

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	SYNOFIN (Modified PPHP)													
Properties	STD. ASTM	Unit	Speciality Grades											
			LC4701 (PPHP)	LC1701 (PPHP) FR V0	LC1611 FR UV Talc 5	LC4606 PPHP GF30	LC4704 PPHP-GF20	LC3701 PPHP FR V2	LC 4712 Talc 15	LC4713/ LC4613 Talc 20	LC4715 Talc 30	LC4705 GF25 5MF	LC4732 30% CaCo3	LC4706 GF 30
Flow														
Melt Flow Index @ 230C & 2.16 Kg load	D1238	gms/ 10 min	7 - 14	7 - 14	7 - 13	12 - 16	12 - 16	9 - 15	8-11	7 - 14	8 - 11	5 - 10	8 - 12	9 - 15
Mechanical														
Tensile Strength @ Yield 50 mm/min	D638	MPa	30 - 37	18 - 24	20-25	43 - 51	38-45	30 - 37	17-23	25 - 32	29 - 34	37-44	26 - 34	41-49
Tensile Elongation @ Yield	D638	%	8 -14	8 -14	10 -14	8 - 13	5 - 8	8 - 14	5-8	6.5 - 10	5 - 10	5 - 8	5 - 8	7 - 12
Flexural Strength 5 mm/min	D790	MPa	40 - 45	28 - 34	26-32	75 - 86	60-70	38 - 45	23-30	40 - 52	34 - 45	40 - 50	28 - 34	--
Flexural Modulus	D790	MPa	1200-1700	900-400	900- 1100	4300-5500	4000-5000	1100-1700	--	1200- 1700	2500-3600	4000-6000	2200-2800	--
Izod Notched Impact Strength	D256	J/m	15 - 35	25 - 35	90-120	30 - 60	15-25	15 - 30	60-80	60 - 100	20 - 35	37 - 46	35 - 44	30-39
Thermal														
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	57 - 62	60 - 70	60-64	70 - 85	130-140	57 - 62	60-70	65 - 75	70 - 90	110 - 120	80 - 90	75-85
Vicat Softening Temperature (B)	D 525	C	140-147	140-147	130-140	-	-	140 -147	--	146 - 152	-	142 - 160	142 - 160	-
Others														
Density	D 792	gms/cc	0.89-0.94	0.89-0.94	0.91- 0.95	1.08-1.13	1.1-1.13	0.89-0.94	1.02-1.06	1.04 - 1.07	1.11 -1.14	1.10 - 1.13	1.11 -1.14	1.11 - 1.13
Flammability Test @ 3mm thickness	UL 94		-----	V0	V0	--	--	V2	--	-----	HB	HB		--
Filler Content	D 5630	%	-	-	4 - 6	29-31	19-21	-	14-16	19 -21	29 - 32	28 - 32	28 - 32	29-31
Hardness	D 2240	Shore D	-	-	-	--	--	-	--	-	-	-	-	--

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