
	SYNOFIN (Modified PPCP)												
Properties	STD. ASTM	Unit	LA4601/470 1 General (Colour red)	Speciality Grades									
				LA1701 FR V0	LA3701 FR V2	LA4702 GF10	LA4703 GF15	LA4704 GF20	LA4706/ LA4606 GF30	LA4708 GF40	LA1704 GF20 MF5 FR V0	LA 1706 GF30 FR V0	LA4764 GF20 Cond. Black
Flow													
Melt Flow Index@230C, 2.16 Kg load	D1238	gms/10 min	7-14	10-14	8-14	7 - 11	4 - 9	4 - 8	6-10	4 - 8	5 - 10	8-16	1-2
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	50-60	38 -48	43-49
Tensile Elongation @ Yield	D638	%	8-14	7-12	7-12	7 - 9	7 - 10	6 - 9	6 - 9	4 - 6	6 - 8	5- 8	5-9
Flexural Strength 5 mm/min	D790	MPa	28 - 34	25-30	25-30	38 - 45	38 - 44	42 - 46	44 - 50	90 - 110	50-60	50 -60	48-54
Flexural Modulus	D790	MPa	900 -1400	1000 -2000	1200-2000	1200 - 1500	3000-3800	3500-4000	4800 -6000	5500-7000	1350-1450	--	--
Izod Notched Impact Strength	D256	J/m	80 - 120	70 - 100	70 - 100	65 - 75	102 - 110	94 - 104	92 - 100	96 - 100	110-120	120-160	65-85
Thermal													
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	55 - 65	70 - 80	62 - 70	60 - 67	120 - 125	125- 130	130 - 138	140 - 148	130-138	90-110	135-150
Vicat Softening Temperature (B)	D 1525	C	140 - 147	125 -148	142- 150	143- 150	143 - 150	146 - 152	150 - 155	-		--	146 - 152
Others													
Density	D 792	gms/cc	0.89-0.94	0.95-1.00	0.94-1.00	0.95-0.98	0.94-1.00	0.98-1.02	1.00-1.08	1.19-1.23	1.2-1.3	1.28-1.32	1.10-1.15
FlammabilityTest @3mm thickness	UL 94		-----	V0	V2	-----	-----	-----	-----	--	V0	V0	NA
Filler Content	D 5630	%	-	-	-	9-11	14 - 16	19 -21	29 - 31	39 - 41	23-27	29-31	19 -21
Hardness	D 2240	Shore D	-	-	-	-	-	-	-	-	Min 75	--	

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

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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	LD4601 (Gen Col with UV)	LD4613 20Talc
Flow													
Melt Flow Index @ 230C & 2.16 Kg load	D 1238	gms/ 10 min	11-14	9-12	12-18	6-10	7-14	7-10	9-12	8-14	9-12	10 - 13	10 - 13
Mechanical													
Tensile Strength @ Yield 50 mm/min	D 638	MPa	23-27	20-25	24 - 35	18 - 22	18-24	21 - 23	24-32	18 - 22	19-25	18 - 23	18 - 22
Tensile Elongation @ Yield	D638	%	9-11	7-10	5-10	12-16	8-14	4-7	8-12	6-10	6-11	10 - 13	7 - 9
Flexural Strength 5 mm/min	D790	MPa	--	38 - 44	20-30	22 - 26	38-50	30 - 38	34-40	30 - 34		24 - 28	24 - 28
Flexural Modulus	D790	MPa	--	1300-1700	1350-1500	1300- 1400	1600-2700	1500 - 1800	1450-1900	1350-1450		750 - 1000	800 -1200
Izod Notched Impact Strength	D256	J/m	95-105	80-110	76 - 96	90-120	70-90	60 - 80	48-64	62 - 68	60-70	400 - 530	300 - 500
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	56 - 62	65 - 72
Vicat Softening Temperature (B)	D 1525	C	--	-	145 -155	140 - 145	140-150	-	135-160	145 - 150		100 - 110	-
Others													
Density	D 792	gms/cc	0.89-0.94	0.94-0.97	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	0.89-0.94	1.00-1.08
Flammability Test @ 3mm thickness	UL 94		HB	HB	----	-----	---	HB	----	V0		HB	HB
Filler Content	D 5630	%	4 - 6	9.5 - 10.5	14 - 16	19 - 21	24 - 26	28 - 32	39 - 41	19 - 21	29 - 31	NA	19-21
Hardness	D 2240	Shore D	-	-	-	-	-	-	-	-	-	NA	
Moisture Content	D6980	%		Max-0.4									

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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	LA 4731 20% Caco3							
Flow														
Melt Flow Index @ 230C & 2.16 Kg load	D 1238	gms/ 10 min	7 - 14	7 - 14	7 - 14	8 - 12	7 - 12							
Mechanical														
Tensile Strength @ Yield 50 mm/min	D 638	MPa	20 - 30	20 - 30	18 - 24	22 - 25	12 - 17							
Tensile Elongation @ Yield	D638	%	8 - 14	8 - 14	8 - 14	5 - 8	4 - 7							
Flexural Strength 5 mm/min	D790	MPa	35 - 45	35 - 47	26 - 32	27 -30	22-26							
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	80-100							
Thermal														
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	74 - 85	78 - 90	80 - 95	65 - 80	55 - 70							
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	1.01-1.05							
Flammability Test @ 3mm thickness	UL 94		----	----	---	HB	---							
Filler Content	D 5630	%	14 - 16	19 - 21	24 - 26	39 - 41	19 - 21							
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	LG4710 (M.Flow H. Impact)		
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	15-18		
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	20-24		
Tensile Elongation @ Yield	D638	%	8 - 12	7 - 10	5 - 9	4 - 8	5 - 9	4 - 7	9 - 13	6 - 10	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	18-25		
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	85-105		
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	0.89-0.93		
Flammability Test @ 3mm thickness	UL 94		-----	HB	-	-----	---	---	V2	V0	---		
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 PPRCP)												
Properties	STD. ASTM	Unit	Speciality Grades										
			LE4701/LE4601	LE4713 Talc Filled 20	LF4701 (Gen Col with RP)	LF 4704 GF 20	LF 4706 GF 30	LF 4703 GF 15					
Flow													
Melt Flow Index @ 230C & 2.16 Kg load	D 1238	gms/ 10 min	9 - 13	10-14	8 - 12	Min 3	Min 3	Min 5					
Mechanical													
Tensile Strength @ Yield 50 mm/min	D 638	MPa	28 - 32	22-27	21 - 25	Min 35	Min 44	Min 28					
Tensile Elongation @ Yield	D638	%	10 - 12	10-12	10 - 12	Min 8	Min5	Min 6					
Flexural Strength 5 mm/min	D790	MPa	28 - 34	--	26 - 30	Min 46	Min 56	Min 40					
Flexural Modulus	D790	MPa	1000-1200	--	1100-1400	--	--						
Izod Notched Impact Strength	D256	J/m	60 - 85	45-52	85 - 120	Min 65	Min 70	Min 75					
Thermal													
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	58 - 61	53-59	57 - 60	Min 102	Min 120	Min 123					
Vicat Softening Temperature (B)	D 1525	C	100 - 110	--	100 - 110	--	--	Min 75					
Others													
Density	D 792	gms/cc	0.89-0.92	1.02-1.04	0.89-0.92	Min 1.04	Min 1.12	Min 0.97					
Flammability Test @ 3mm thickness	UL 94		HB	--	HB	--	--	--					
Filler Content	D 5630	%	NA	19-21	1.3	19-21	29-31	15-17					
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	LC3701 PPHP FR V2	LC 4712 Talc 15	LC4713/ LC4613 Talc 20	LC4715 Talc 30	LC4732 30% CaCo3		
Flow												
Melt Flow Index @ 230C & 2.16 Kg load	D1238	gms/ 10 min	7 - 14	7 - 14	7 - 13	9 - 15	8-11	7 - 14	8 - 11	8 - 12		
Mechanical												
Tensile Strength @ Yield 50 mm/min	D638	MPa	30 - 37	18 - 24	20-25	30 - 37	17-23	25 - 32	29 - 34	26 - 34		
Tensile Elongation @ Yield	D638	%	8 -14	8 -14	10 -14	8 - 14	5-8	6 .5 - 10	5 - 10	5 - 8		
Flexural Strength 5 mm/min	D790	MPa	40 - 45	28 - 34	26-32	38 - 45	23-30	40 - 52	34 - 45	28 - 34		
Flexural Modulus	D790	MPa	1200-1700	900-400	900- 1100	1100-1700	--	1200- 1700	2500-3600	2200-2800		
Izod Notched Impact Strength	D256	J/m	15 - 35	25 - 35	90-120	15 - 30	60-80	60 - 100	20 - 35	35 - 44		
Thermal												
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	57 - 62	60 - 70	60-64	57 - 62	60-70	65 - 75	70 - 90	80 - 90		
Vicat Softening Temperature (B)	D 525	C	140-147	140-147	130-140	140 -147	--	146 - 152	-	142 - 160		
Others												
Density	D 792	gms/cc	0.89-0.94	0.89-0.94	0.91- 0.95	0.89-0.94	1.02-1.06	1.04 - 1.07	1.11 -1.14	1.11 -1.14		
Flammability Test @ 3mm thickness	UL 94		-----	V0	V0	V2	--	-----	HB			
Filler Content	D 5630	%	-	-	4 - 6	-	14-16	19 -21	29 - 32	28 - 32		
Hardness	D 2240	Shore D	-	-	-	-	--	-	-	-		

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	SYNOFIN (Modified PPHP)												
Properties	STD. ASTM	Unit	Speciality Grades										
			LC4704 PPHP- GF20	LC4705 GF25 5MF	LC4606/ LC4706 GF30	LC4708 GF 35	LC4703 GF18						
Flow													
Melt Flow Index @ 230C & 2.16 Kg load	D1238	gms/ 10 min	12 - 16	5 - 10	5 - 10	6-10	12-18						
Mechanical													
Tensile Strength @ Yield 50 mm/min	D638	MPa	38-45	37-44	37-44	65-71	43-53						
Tensile Elongation @ Yield	D638	%	5 - 8	5 - 8	5 - 8	5-9	5-8						
Flexural Strength 5 mm/min	D790	MPa	60-70	40 - 50	75 - 86	82-87	45-55						
Flexural Modulus	D790	MPa	4000-5000	4000-6000		--	--						
Izod Notched Impact Strength	D256	J/m	15-25	37 - 46	35-48	65-75	40-50						
Thermal													
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	130-140	110 - 120	120-130	143-149	-						
Vicat Softening Temperature (B)	D 525	C	-	142 - 160	-	----	--						
Others													
Density	D 792	gms/cc	1.1-1.13	1.10 - 1.13	1.11 - 1.13	1.12-1.16	1.01-1.03						
Flammability Test @ 3mm thickness	UL 94		--	HB	--	--	--						
Filler Content	D 5630	%	19-21	28 - 32	28-32	33-37	17-19						
Hardness	D 2240	Shore D	--		--	--	--						

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