



## SYNOFIN (Modified PPCP)

Properties	STD. ASTM	Unit	LA4601/ 4701 General (Coloured )	Speciality Grades							
				LA1701 FR	LA3701 FR	LA4703 GF15	LA4704 GF20	LA4706 GF30	LB4601/ LB4701 Low Flow	LB 4606 Low Flow	LB4704 GF20
<b>Flow</b> Melt Flow Index@230°C,2.16 Kg load	D1238	gms/10 min	7 - 14	7 - 14	8 - 14	4 - 9	4 - 8	6 - 10	2.5-3.5	3 - 7	3.5 - 7
<b>Mechanical</b> Tensile Strength @ Yield 50 mm/min	D638	MPa	18 - 24	18 - 24	18 - 24	22 - 30	27 - 32	27 - 33	28-32	35 - 47	35 - 48
Tensile Elongation @ Yield	D638	%	8 - 14	8 - 14	8 - 14	7.0 - 10.0	6 .0 - 9.0	6.0 - 9.0	8-14	4.0 - 8.0	5 - 9
Flexural Strength 5 mm/min	D790	MPa	28 - 34	28 - 34	28 - 34	38 - 44	42 - 46	44 - 50	28-34	42 - 65	42 - 60
Flexural Modulus	D790	MPa	900-1400	1000-2000	1200-2000	3000-3800	3500-4000	4800-6000	900-1400	3000-6000	2500- 3500
Izod Notched Impact Strength	D256	J/m	80 - 200	70 - 100	70 - 100	102 - 110	94 - 104	92 - 100	80-200	65 - 90	60 - 90
<b>Thermal</b> Heat Deflection Temperature Under Load (B)1.82MPa	D 648	°C	60 - 70	70 - 80	62 - 70	120 - 125	125 - 130	130 - 138	60-70	-	64 - 90
Vicat Softening Temperature (B)	D 1525	°C	140 - 147	125 - 148	142 - 150	143 - 150	146 - 152	150 - 155	140-147	150 - 155	-
<b>Others</b> Density	D 792	gms/cc	0.89 - 0.94	1.00 - 1.15	0.94 - 1.00	0.94 - 1.00	0.98 - 1.02	1.00 - 1.08	0.89-0.94	1.00 - 1.08	1.19 - 1.23
Flammability Test @ 3mm thickness	UL 94		-----	V0	V2	-----	-----	-----	-----	-----	-
Filler Content	D 5630	%	-	-	-	14 - 16	19 -21	29 - 31	-	29 - 31	19 - 21
Hardness	D 2240	Shore D	-	-	-	-	-	-	-	-	--

\* 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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## GUJARAT PETROSYNTHESE LIMITED

### Polymer Alloys & Blends Division

No.24, II Main, Phase I, Doddanekkundi Indl. Area  
Mahadevapura Post, Behind Graphite India Ltd., Bangalore-560048  
Phone : 91-080-28524133 Fax : 91-080-28524171 E-mail : [info@gpl.in](mailto:info@gpl.in)

Agents:



## SYNOFIN (Modified PPCP)

Properties	STD. ASTM	Unit	Speciality Grades									
			LA4712 Mineral Filled 15	LA4713 Mineral Filled 20	LA4743 Mineral Filled 25	LA4712 Talc Filled 15	LA4713 IM Talc Filled 20	LA4716 Talc Filled 40	LA1713 FR Talc Filled 20	LA4714 Talc Filled 25	LB4613/LB4713 UV Talc Filled 20	LB4715/ Talc Filled 30
<b>Flow</b> Melt Flow Index @ 230°C & 2.16 Kg load	D 1238	gms/ 10 min	7 - 14	7 - 14	7 - 14	9 -12	6 - 10	9-12	8 - 14	7-14	2-6	2 - 6
<b>Mechanical</b> Tensile Strength @ Yield 50 mm/min	D 638	MPa	20 - 30	20 - 30	18 - 24	24 - 35	18 - 22	24-32	18 - 22	18-24	27-31	25 - 30
Tensile Elongation @ Yield	D638	%	8 - 14	8 - 14	8 - 14	8 -12	12 - 16	8-12	6 - 10	8-14	5-9	4 - 7
Flexural Strength 5 mm/min	D790	MPa	35 - 45	35 - 47	26 - 32	30 -35	22 - 26	34-40	30 - 34	38-50	32-38	30 - 38
Flexural Modulus	D790	MPa	1500-2500	1500-2500	1200-2000	1350-1500	1300-1400	1450-1900	1350 - 1450	1600-2700	2300-3000	2700 - 3600
Izod Notched Impact Strength	D256	J/m	70 - 100	70 - 95	65 - 90	76 - 96	225 - 260	48-64	62 - 68	70-90	60-70	50 - 70
<b>Thermal</b> Heat Deflection Temperature Under Load (B)1.82MPa	D 648	°C	74 - 85	78 - 90	80 - 95	65 - 80	65 - 72	65-80	75 - 80	80-95	68-75	70 - 84
Vicat Softening Temperature (B)	D 1525	°C	125- 158	135- 150	140- 150	145 -155	140 - 145	135-160	145 - 150	140-150	-	-
<b>Others</b> Density	D 792	gms/cc	0.98-1.06	1.00- .08	1.10-1.15	0.96- .05	1.00 - 1.08	1.12-1.20	1.02- 1.08	1.10-1.15	1.23-1.25	1.26 - 1.28
Flammability Test @ 3mm thickness	UL 94		----	----	---	----	-----	-----	V0	---	---	---
Filler Content	D 5630	%	14 - 16	19 - 21	24 - 26	14 - 16	19 - 21	39 - 41	19 -21	24 - 26	19 - 21	28 - 32
Hardness	D 2240	Shore D	-	-	-	-	-	-	-	-	-	-

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Agents:



## SYNOFIN (Modified PPHP)

Properties	STD. ASTM	Unit	Speciality Grades										
			LC 4701 (PPHP)	LC1701 (PPHP)	LC1611 FR UV Talc Filled 5	LC4704 PPHP-GF20	LC3701 PPHP						
<b>Flow</b> Melt Flow Index @ 230°C & 2.16 Kg load	D1238	gms/ 10 min	7 - 14	7 - 14	7-13	12-16	9 - 15						
<b>Mechanical</b> Tensile Strength @ Yield 50 mm/min	D638	MPa	30 - 37	18 - 24	20-25	38-45	30 - 37						
Tensile Elongation @ Yield	D638	%	8 - 14	8 - 14	10-14	5-8	8 - 14						
Flexural Strength 5 mm/min	D790	MPa	40 - 45	28 - 34	26-32	60-70	38 - 45						
Flexural Modulus	D790	MPa	1200-1700	900- 400	900- 1100	4000-5000	1100-1700						
Izod Notched Impact Strength	D256	J/m	15 - 35	25 - 35	90-120	15-25	15 - 30						
<b>Thermal</b> Heat Deflection Temperature Under Load (B)1.82MPa	D 648	°C	57 - 62	60 - 70	60-64	130-140	57 - 62						
Vicat Softening Temperature (B)	D 1525	°C	140 - 147	140 - 147	130-140	--	140 - 147						
<b>Others</b> Density	D 792	gms/cc	0.89 - 0.94	0.89 - 0.94	0.91-0.95	1.1 - 1.13	0.89 - 0.94						
Flammability Test @ 3mm thickness	UL 94		-----	V0	V0	--	V2						
Filler Content	D 5630	%	-	-	4 - 6	19-21	-						
Hardness	D 2240	Shore D	-	-	-	--	-						

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