



## SYNOLAC (Modified ABS)

Properties	STANDARD	Unit	BB4601/	Speciality Grades							
	ASTM		BB4701 General (Coloured -M. Flow)	BA4601 Hi - Impact	BB4703 GF15	BB1601 FR UV	BB3701 FR V2	BB1701 FR V0	BB4704 GF20		
<b>Flow</b>											
Melt Flow Index @ 220C & 10 Kg load	D1238	gms/10 min	18 - 28	6-18	18 - 24	18 - 28	20-30	20-30	13 - 18		
<b>Mechanical</b>											
Tensile Strength @ Yield 50 mm/min	D638	MPa	38 - 46	34 - 42	50 - 65	38 - 48	38 - 48	38-48	68 - 75		
Tensile Elongation @ Yield	D638	%	7-12	7-12	7-12	7-12	7-12	7-12	5-9		
Flexural Strength 5 mm/min	D790	MPa	62 - 74	58 - 68	80 - 94	62 - 78	62 - 78	62-78	105 - 115		
Flexural Modulus	D790	MPa	2200 -3200	1900-2500	3500-4500	2200 - 3200	2200-3200	2200-3200	3500 - 4500		
Izod Notched Impact Strength	D256	J/m	180 - 350	275 - 400	55 - 80	120 - 190	140 - 200	120-170	70 - 100		
<b>Thermal</b>											
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	78 - 88	78 - 86	90 - 100	78 - 86	78 - 86	78-86	95 - 105		
Vicat Softening Temperature (B)	D 1525	C	102 - 110	102 - 110	108 - 115	102 - 110	102 - 110	102-110	-		
<b>Others</b>											
<b>Density</b>	D 792	gms/cc	1.03 - 1.10	1.03- 1.10	1.12-1.15	1.12 - 1.22	1.07-1.17	1.12-1.22	1.17 - 1.20		
Flammability Test @ 3mm thickness	UL 94		HB	HB	----	V0	V2	V0	----		
Filler Content	D 5630	%	-	-	14 - 16	-	-	-	19 - 21		

\* 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

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Agents:

	<b>SYNOLAC (Modified ABS)</b>												
Properties	STANDAR D ASTM	Unit	Speciality Grades										
			BC4601/ BC4701 HR	BC 1701 HR FR V0	BD4701 TR	BE4701 (General Col- H.Flow)	BE 4702 (Hi- Flow ABS GF10)	BF1701 / BF 1601 FR V0 (ABS FR Grade)	BH1701 FR V0 ( HR M.Flow )	BH4601/B H4701 ( HR M.Flow )	BI 1701 FR V0 (FR M.Flow Grade)		
<b>Flow</b>													
Melt Flow Index @ 220C & 10 Kg load	D1238	gms/10 min	8-20	9-13	4-7	30 -43	42-47	43- 52	18-24	19-25	35-45		
<b>Mechanical</b>													
Tensile Strength @ Yield 50 mm/min	D638	MPa	45-60	40 - 55	40-48	39 - 46	47-52	37 - 43	38-48	42-48	32-38		
Tensile Elongation @ Yield	D638	%	4-10	5-8	4-9	5-8	4-6	5-8	5-9	5-8	5-9		
Flexural Strength 5 mm/min	D790	MPa	65-80	60 - 75	55-61	62 -70		52 - 58	52-58	70-80	45-55		
Flexural Modulus	D790	MPa	2400-2900	2200-3200	1950-2200	2000-2500		2000-2800					
Izod Notched Impact Strength	D256	J/m	150-260	65 - 95	50-60	190 - 240	75-85	200 - 240	140-180	180-240	200 - 240		
<b>Thermal</b>													
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	90-110	98 - 105	80-89	82 - 92	92-98	75 - 85	90-98	88-95			
Vicat Softening Temperature (B)	D 1525	C	90 -115	-	88-96	100 - 110	-	-	-	95-102			
<b>Others</b>													
Density	D 792	gms/cc	1.04-1.06	1.15 - 1.18	1.07-1.09	1.03- 1.06	1.09-1.1	1.15 - 1.18	1.12-1.22	1.04-1.06	1.15 - 1.18		
Flammability Test @ 3mm thickness	UL 94		HB	V0	HB	HB	HB	V0	V0	HB	V0		
Filler Content	D 5630	%	-	NA	-	-	9-11	----	----	----	----		

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		<b>SYNOLAC (Modified ASA)</b>										
<b>Properties</b>	<b>STANDAR D ASTM</b>	<b>Unit</b>	<b>Speciality Grades</b>									
			<b>BG4703 GF15</b>	<b>BG1601 UV FR V0</b>	<b>BG4701 (Col)</b>							
<b>Flow</b>												
Melt Flow Index @ 220C & 10 Kg load	D1238	gms/10 min	7-11	15-21	10-14							
<b>Mechanical</b>												
Tensile Strength @ Yield 50 mm/min	D638	MPa	39-45	31-37	42-48							
Tensile Elongation @ Yield	D638	%	7-10	5-10	5-8							
Flexural Strength 5 mm/min	D790	MPa	50-56	39-45	70-76							
Flexural Modulus	D790	MPa	-	2300-3000								
Izod Notched Impact Strength	D256	J/m	89-95	125-135	140-160							
<b>Thermal</b>												
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	99-105	75-85	81-86							
Vicat Softening Temperature (B)	D 1525	C	-	-	88-98							
<b>Others</b>												
Density	D 792	gms/cc	1.13-1.17	1.15-1.20	1.03-1.09							
Flammability Test @ 3mm thickness	UL 94		-	V0	HB							
Filler Content	D 5630	%	14 - 16	NA	NA							

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