



## SYNOLAC (Modified ABS)

Properties	STANDAR D	Unit	BB4601/	Speciality Grades								
				BB4701 General (Coloured -M. Flow)	BA4601 Hi - Impact	BB4703 GF15	BB1601 FR UV	BB3701 FR V2	BB1701 FR V0			
<b>Flow</b>												
Melt Flow Index @ 220C & 10 Kg load	D1238	gms/10 min	16 - 22	6-18	18 - 24	16 - 22	16 - 24	16-22	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 - 170	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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Agents:

		SYNOLAC (Modified ABS)												
Properties	STANDARD ASTM	Unit	Speciality Grades											
			BC4601/BC4701 HR	BC 1701 HR FR V0	BD4701 TR	BE4701 (General Col-H.Flow)	BF1701/BF 1601 FR V0 (ABS FR Grade)	BE 4702 (Hi- Flow ABS GF10)						
<b>Flow</b>														
Melt Flow Index @ 220C & 10 Kg load	D1238	gms/10 min	3-10	9-13	4-7	30 -43	43- 52	42-47						
<b>Mechanical</b>														
Tensile Strength @ Yield 50 mm/min	D638	MPa	45-60	40 - 55	40-48	39 - 46	37 - 43	47-52						
Tensile Elongation @ Yield	D638	%	4-10	5-8	4-9	5-8	5-8	4-6						
Flexural Strength 5 mm/min	D790	MPa	65-80	60 - 75	55-61	62 -70	52 - 58							
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	200 - 240	75-85						
<b>Thermal</b>														
Heat Deflection Temperature Under Load (B)1.82MPa	D 648	C	90-110	98 - 105	80-89	82 - 92	75 - 85	92-98						
Vicat Softening Temperature (B)	D 1525	C	90 -115	-	88-96	100 - 110	-	-						
<b>Others</b>														
Density	D 792	gms/cc	1.04-1.06	1.15 - 1.18	1.07-1.09	1.03- 1.06	1.15 - 1.18	1.09-1.1						
Flammability Test @ 3mm thickness	UL 94		HB	V0	HB	HB	V0	HB						
Filler Content	D 5630	%	-	NA	-	-	----	9-11						

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

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