

# SABIC CYCOLAC™ ABS MGABS01物性表

属性	典型值	UNITS	测试手段
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 5 mm/min	41	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	31	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	2.1	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	20	%	ASTM D638
Tensile Modulus, 5 mm/min	2100	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	68	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2200	MPa	ASTM D790
<b>IMPACT</b>			
Izod Impact, notched, 23°C	293	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	31	J	ASTM D3763
<b>THERMAL</b>			
Vicat Softening Temp, Rate B/50	98	°C	ASTM D1525
HDT, 0.45 MPa, 3.2 mm, unannealed	97	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	82	°C	ASTM D648
CTE, -40°C to 40°C, flow	8.64E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	8.82E-05	1/°C	ASTM E831
Relative Temp Index, Elec	60	°C	UL 746B
Relative Temp Index, Mech w/impact	60	°C	UL 746B
Relative Temp Index, Mech w/o impact	60	°C	UL 746B
<b>PHYSICAL</b>			
Specific Gravity	1.04	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm	0.5-0.8	%	SABIC method
Melt Flow Rate, 230°C/3.8 kg	5.6	g/10 min	ASTM D1238

Melt Viscosity, 240°C, 1000 sec-1	2400	Poise	ASTM D3825
Melt Volume Rate, MVR at 220°C/10.0 kg	18	cm <sup>3</sup> /10 min	ISO 1133
<b>ELECTRICAL</b>			
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D495
Hot Wire Ignition {PLC}	3	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	3	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
<b>FLAME CHARACTERISTICS</b>			
UL Recognized, 94HB Flame Class Rating	1.52	mm	UL 94
<b>Injection Molding</b>			
Drying Temperature	80-95	°C	
Drying Time	2-4	Hrs	
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	220-260	°C	
Nozzle Temperature	220-260	°C	
Front - Zone 3 Temperature	215-240	°C	
Middle - Zone 2 Temperature	205-225	°C	
Rear - Zone 1 Temperature	190-210	°C	
Mold Temperature	50-70	°C	
Back Pressure	0.3-0.7	MPa	
Screw Speed	30-60	rpm	
Shot to Cylinder Size	50-70	%	
Vent Depth	0.038-0.051	mm	

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