

# SABIC CYCOLAC™ ABS EXABS01物性表

属性	典型值	UNITS	测试手段
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 5 mm/min	39	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	28	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	3.1	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	31.6	%	ASTM D638
Tensile Modulus, 5 mm/min	2030	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	63	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2100	MPa	ASTM D790
<b>IMPACT</b>			
Izod Impact, notched, 23°C	411	J/m	ASTM D256
Izod Impact, notched, -30°C	277	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	33	J	ASTM D3763
<b>THERMAL</b>			
Vicat Softening Temp, Rate B/50	106	°C	ASTM D1525
HDT, 0.45 MPa, 3.2 mm, unannealed	93	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	80	°C	ASTM D648
CTE, -40°C to 40°C, flow	1.01E-04	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	1.04E-04	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	1.03	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm	0.6-0.8	%	SABIC method

Melt Viscosity, 240°C, 100 sec-1	14000	Poise	ASTM D3825
Melt Volume Rate, MVR at 220°C/10.0 kg	4	cm <sup>3</sup> /10 min	ISO 1133
<b>ELECTRICAL</b>			
Arc Resistance, Tungsten {PLC}	5	PLC Code	ASTM D495
Hot Wire Ignition {PLC}	4	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	1	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	4	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
<b>FLAME CHARACTERISTICS</b>			
UL Yellow Card Link	E121562-220684	-	-
UL Recognized, 94HB Flame Class Rating	1.52	mm	UL 94
<b>Extrusion Blow Molding</b>			
Drying Temperature	80-90	°C	
Drying Time	4-5	Hrs	
Drying Time (Cumulative)	24	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature (Parison)	215-230	°C	
Barrel - Zone 1 Temperature	205-225	°C	
Barrel - Zone 2 Temperature	205-225	°C	
Barrel - Zone 3 Temperature	205-225	°C	
Barrel - Zone 4 Temperature	205-225	°C	
Adapter - Zone 5 Temperature	210-230	°C	
Head - Zone 6 - Top Temperature	215-230	°C	
Head - Zone 7 - Bottom Temperature	215-230	°C	
Screw Speed	20-60	rpm	
Extruder Feed Zone Temperature	60-75	°C	
Mold Temperature	40-80	°C	
Die Temperature	215-235	°C	
<b>Sheet Extrusion</b>			
Drying Temperature	80-95	°C	
Drying Time	4	Hrs	

Maximum Moisture Content	0.02	%
Melt Temperature	215-260	°C
Barrel - Zone 1 Temperature	170-200	°C
Barrel - Zone 2 Temperature	180-220	°C
Barrel - Zone 3 Temperature	190-225	°C
Barrel - Zone 4 Temperature	200-240	°C
Adapter Temperature	205-250	°C
Die Temperature	205-250	°C
Roll Stack Temp - Top	90-95	°C
Roll Stack Temp - Middle	95-105	°C
Roll Stack Temp - Bottom	100-105	°C

此数据由我们从该材料的生产商处获得。我们尽最大努力确保此数据的准确性，但是我们对这些数据值不承担任何责任，并强烈建议在最终选料前，就数据值与材料供应商进行验证。