

# SABIC CYCOLAC™ ABS EX39物性表

属性	典型值	UNITS	测试手段
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 5 mm/min	35	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	28	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	3.5	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	108	%	ASTM D638
Tensile Modulus, 5 mm/min	1680	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	57	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	1900	MPa	ASTM D790
<b>IMPACT</b>			
Izod Impact, notched, 23°C	464	J/m	ASTM D256
Izod Impact, notched, -30°C	320	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	39	J	ASTM D3763
<b>THERMAL</b>			
Vicat Softening Temp, Rate B/50	106	°C	ASTM D1525
HDT, 0.45 MPa, 3.2 mm, unannealed	91	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	77	°C	ASTM D648
CTE, -40°C to 40°C, flow	1.01E-04	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	1.17E-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	0.7-0.9	%	SABIC method

Melt Viscosity, 240°C, 100 sec-1	15200	Poise	ASTM D3825
Melt Volume Rate, MVR at 220°C/10.0 kg	4	cm <sup>3</sup> /10 min	ISO 1133
<b>FLAME CHARACTERISTICS</b>			
UL Recognized, 94HB Flame Class Rating	1.52	mm	UL 94
<b>Extrusion Blow Molding</b>			
Drying Temperature	80-90	°C	
Drying Time	5-4	Hrs	
Drying Time (Cumulative)	24	Hrs	
Maximum Moisture Content	0.02-0.04	%	
Minimum Moisture Content	0.04	%	
Melt Temperature (Parison)	210-225	°C	
Barrel - Zone 1 Temperature	190-220	°C	
Barrel - Zone 2 Temperature	190-220	°C	
Barrel - Zone 3 Temperature	190-220	°C	
Barrel - Zone 4 Temperature	190-220	°C	
Adapter - Zone 5 Temperature	195-220	°C	
Head - Zone 6 - Top Temperature	195-220	°C	
Head - Zone 7 - Bottom Temperature	195-220	°C	
Screw Speed	20-60	rpm	
Extruder Feed Zone Temperature	60-80	°C	
Mold Temperature	40-90	°C	
Die Temperature	195-220	°C	
<b>Sheet Extrusion</b>			
Drying Temperature	90-95	°C	
Drying Time	2-4	Hrs	
Maximum Moisture Content	0	%	
Melt Temperature	210-240	°C	
Barrel - Zone 1 Temperature	195-210	°C	
Barrel - Zone 2 Temperature	200-220	°C	
Barrel - Zone 3 Temperature	205-230	°C	
Barrel - Zone 4 Temperature	210-235	°C	
Adapter Temperature	200-225	°C	

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Die Temperature

210-240

°C

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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。