

SABIC CYCOLAC™ ABS MG34LG物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	40	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	33	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	2	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	25	%	ASTM D638
Tensile Modulus, 5 mm/min	2130	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
Tensile Stress, yield, 5 mm/min	38	MPa	ISO 527
Tensile Stress, break, 5 mm/min	31	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.1	%	ISO 527
Tensile Strain, break, 5 mm/min	25.7	%	ISO 527
Tensile Modulus, 1 mm/min	2260	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	62	MPa	ISO 178
Flexural Modulus, 2 mm/min	2060	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	245	J/m	ASTM D256
Izod Impact, notched, -30°C	42	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	35	J	ASTM D3763
Izod Impact, notched 80*10*4 +23°C	18	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	7	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	18	kJ/m ²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	98	°C	ASTM D1525

HDT, 1.82 MPa, 3.2mm, unannealed	82	°C	ASTM D648
CTE, -40°C to 40°C, flow	9.36E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	9.36E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	9.36E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	9.36E-05	1/°C	ISO 11359-2
Ball Pressure Test, 75°C +/- 2°C	PASSES	-	IEC 60695-10-2
Vicat Softening Temp, Rate B/50	97	°C	ISO 306
Vicat Softening Temp, Rate B/120	101	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	81	°C	ISO 75/Af

PHYSICAL

Specific Gravity	1.04	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm	0.5-0.8	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.5-0.8	%	SABIC method
Melt Flow Rate, 200°C/3.8 kgf	6	g/10 min	ASTM D1238
Density	1.03	g/cm ³	ISO 1183
Water Absorption, (23°C/saturated)	1	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.2	%	ISO 62
Melt Volume Rate, MVR at 220°C/10.0 kg	24	cm ³ /10 min	ISO 1133

FLAME CHARACTERISTICS

UL Yellow Card Link	E121562-220725	-	-
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Injection Molding

Drying Temperature	80-90	°C	
Drying Time	2-4	Hrs	
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	230-275	°C	
Nozzle Temperature	230-275	°C	
Front - Zone 3 Temperature	230-245	°C	
Middle - Zone 2 Temperature	215-225	°C	
Rear - Zone 1 Temperature	200-210	°C	
Mold Temperature	25-60	°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

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。