

# SABIC CYCOLOY™ PC/ABS MC8800物性表

属性	典型值	UNITS	测试手段
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 5 mm/min	55	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	58	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	9	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	120	%	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	96	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2960	MPa	ASTM D790
<b>IMPACT</b>			
Izod Impact, notched, 23°C	427	J/m	ASTM D256
Izod Impact, notched, -30°C	106	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	56	J	ASTM D3763
Instrumented Dart Impact Energy @ peak, -30°C	50	J	ASTM D3763
<b>THERMAL</b>			
Vicat Softening Temp, Rate B/50	117	°C	ASTM D1525
HDT, 0.45 MPa, 3.2 mm, unannealed	137	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	120	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	126	°C	ASTM D648
CTE, -40°C to 40°C, flow	6.66E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	8.1E-05	1/°C	ASTM E831
Thermal Conductivity	0.2	W/m-°C	ASTM C177
<b>PHYSICAL</b>			
Specific Gravity	1.22	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.1	%	ASTM D570

Water Absorption, (23°C/Saturated)	0.4	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm	0.4-0.6	%	SABIC method
Melt Flow Rate, 230°C/3.8 kg	1.4	g/10 min	ASTM D1238
Melt Flow Rate, 260°C/5.0 kgf	10	g/10 min	ASTM D1238
<b>Injection Molding</b>			
Drying Temperature	110-120	°C	
Drying Time	3-4	Hrs	
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	280-300	°C	
Nozzle Temperature	270-300	°C	
Front - Zone 3 Temperature	270-300	°C	
Middle - Zone 2 Temperature	265-290	°C	
Rear - Zone 1 Temperature	260-270	°C	
Mold Temperature	75-100	°C	
Back Pressure	0.3-0.7	MPa	
Screw Speed	40-70	rpm	
Shot to Cylinder Size	30-80	%	
Vent Depth	0.038-0.076	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。