

# SABIC LEXAN™ PC OQ4005物性表

属性	典型值	UNITS	测试手段
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 50 mm/min	64	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	60	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	6	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	78	%	ASTM D638
Tensile Modulus, 50 mm/min	2300	MPa	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	2310	MPa	ASTM D790
Flexural Stress, yield, 2 mm/min	97	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D4812
Izod Impact, unnotched, -30°C	NB	J/m	ASTM D4812
Izod Impact, notched, 23°C	910	J/m	ASTM D256
Izod Impact, notched, -30°C	128	J/m	ASTM D256
<b>THERMAL</b>			
Vicat Softening Temp, Rate B/50	145	°C	ASTM D1525
HDT, 1.82 MPa, 6.4 mm, unannealed	129	°C	ASTM D648
CTE, -40°C to 40°C, flow	6.06E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.16E-05	1/°C	ISO 11359-2
Ball Pressure Test, 125°C +/- 2°C	PASSES	-	IEC 60695-10-2
<b>PHYSICAL</b>			
Specific Gravity	1.2	-	ASTM D792
Mold Shrinkage, flow	0.77	%	SABIC method
Mold Shrinkage, xflow	0.77	%	SABIC method
Water Absorption, (23°C/saturated)	0.14	%	ISO 62-1
Melt Volume Rate, MVR at 300°C/1.2 kg	8	cm <sup>3</sup> /10 min	ISO 1133

OPTICAL			
Light Transmission, 2.54 mm	87	%	ASTM D1003
Haze, 2.54 mm	0.4	%	ASTM D1003
ELECTRICAL			
Dielectric Constant, 1.1 GHz	2.8	-	SABIC method
Dissipation Factor, 1.1 GHz	0.0063	-	SABIC method
Injection Molding			
Drying Temperature	120	°C	
Drying Time	2-4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	280-310	°C	
Nozzle Temperature	270-290	°C	
Front - Zone 3 Temperature	280-310	°C	
Middle - Zone 2 Temperature	270-290	°C	
Rear - Zone 1 Temperature	260-280	°C	
Hopper Temperature	60-80	°C	
Mold Temperature	80-110	°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。