

SABIC LEXAN™ PC OQ2720物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	62	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	68	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	135	%	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	2340	MPa	ASTM D790
IMPACT			
Izod Impact, notched, 23°C	907	J/m	ASTM D256
Tensile Impact Strength, Type S	640	kJ/m ²	ASTM D1822
Instrumented Dart Impact Energy @ peak, 23°C	65	J	ASTM D3763
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	132	°C	ASTM D648
PHYSICAL			
Specific Gravity	1.2	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm	0.5-0.7	%	SABIC method
Melt Flow Rate, 300°C/1.2 kgf	7.5	g/10 min	ASTM D1238
OPTICAL			
Light Transmission, 2.54 mm	89	%	ASTM D1003
Haze, 2.54 mm	0.6	%	ASTM D1003
Refractive Index	1.586	-	ASTM D542
Yellowness Index	0	-	ASTM D1925
Injection Molding			
Drying Temperature	120	°C	
Drying Time	3-4	Hrs	
Drying Time (Cumulative)	48	Hrs	

Maximum Moisture Content	0.02	%
Melt Temperature	310-330	°C
Nozzle Temperature	305-325	°C
Front - Zone 3 Temperature	310-330	°C
Middle - Zone 2 Temperature	300-320	°C
Rear - Zone 1 Temperature	290-310	°C
Mold Temperature	80-115	°C
Back Pressure	0.3-0.7	MPa
Screw Speed	40-70	rpm
Shot to Cylinder Size	40-60	%
Vent Depth	0.025-0.076	mm

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