

SABIC VALOX™ PBT V8280物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	145	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	145	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	2.2	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	2.2	%	ASTM D638
Tensile Modulus, 5 mm/min	12750	MPa	ASTM D638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	220	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	10680	MPa	ASTM D790
IMPACT			
Izod Impact, unnotched, 23°C	827	J/m	ASTM D4812
Izod Impact, notched, 23°C	106	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	7	J	ASTM D3763
THERMAL			
Vicat Softening Temp, Rate B/50	221	°C	ASTM D1525
HDT, 0.45 MPa, 3.2 mm, unannealed	215	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	193	°C	ASTM D648
CTE, -40°C to 40°C, flow	1.44E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	7.38E-05	1/°C	ASTM E831
PHYSICAL			
Specific Gravity	1.64	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm	0.2-0.5	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.5-0.8	%	SABIC method
Melt Flow Rate, 266°C/5.0 kgf	33	g/10 min	ASTM D1238
Injection Molding			
Drying Temperature	135	°C	

Drying Time	4-6	Hrs
Drying Time (Cumulative)	12	Hrs
Maximum Moisture Content	0.02	%
Melt Temperature	270-280	°C
Nozzle Temperature	270-280	°C
Front - Zone 3 Temperature	270-280	°C
Middle - Zone 2 Temperature	270-280	°C
Rear - Zone 1 Temperature	260-275	°C
Mold Temperature	40-65	°C
Back Pressure	0.3-0.7	MPa
Screw Speed	50-80	rpm
Shot to Cylinder Size	40-80	%
Vent Depth	0.025-0.038	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。