

# SABIC VALOX™ PBT V2000DM物性表

属性	典型值	UNITS	测试手段
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 50 mm/min	59	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	40	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	20	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	100	%	ASTM D638
Tensile Modulus, 5 mm/min	2800	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	90	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2570	MPa	ASTM D790
Tensile Stress, yield, 50 mm/min	59	MPa	ISO 527
Tensile Stress, break, 50 mm/min	55	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	7	%	ISO 527
Tensile Strain, break, 50 mm/min	15	%	ISO 527
Tensile Modulus, 1 mm/min	2600	MPa	ISO 527
Flexural Modulus, 2 mm/min	2500	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, -30°C	NB	J/m	ASTM D4812
Izod Impact, notched, 23°C	46	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	54	J	ASTM D3763
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	2	kJ/m <sup>2</sup>	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	4	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL</b>			
Vicat Softening Temp, Rate B/50	185	°C	ASTM D1525
HDT, 1.82 MPa, 3.2mm, unannealed	54	°C	ASTM D648

CTE, -40°C to 40°C, flow	8.4E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	8.E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	8.4E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	186	°C	ISO 306
Vicat Softening Temp, Rate B/120	185	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	53	°C	ISO 75/Af

## PHYSICAL

Specific Gravity	1.32	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm	2.1-2.4	%	SABIC method
Melt Flow Rate, 250°C/2.16 kgf	35.4	g/10 min	ASTM D1238
Density	1.32	g/cm <sup>3</sup>	ISO 1183
Water Absorption, (23°C/saturated)	0.34	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.08	%	ISO 62
Melt Volume Rate, MVR at 250°C/2.16 kg	34	cm <sup>3</sup> /10 min	ISO 1133

## FLAME CHARACTERISTICS

UL Yellow Card Link	E45329-102308163	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94

## Injection Molding

Drying Temperature	120	°C	
Drying Time	3-4	Hrs	
Drying Time (Cumulative)	12	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	245-260	°C	
Nozzle Temperature	240-255	°C	
Front - Zone 3 Temperature	245-260	°C	
Middle - Zone 2 Temperature	240-255	°C	
Rear - Zone 1 Temperature	230-250	°C	
Mold Temperature	50-75	°C	
Back Pressure	0.3-0.7	MPa	
Screw Speed	50-100	rpm	
Shot to Cylinder Size	40-80	%	

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Vent Depth

0.013-0.025

mm

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