

SABIC VALOX™ PBT 325FC物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	60	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	60	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	7	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	15	%	ASTM D638
Tensile Modulus, 50 mm/min	2500	MPa	ASTM D638
Tensile Stress, yield, 50 mm/min	60	MPa	ISO 527
Tensile Stress, break, 50 mm/min	60	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	10	%	ISO 527
Tensile Strain, break, 50 mm/min	15	%	ISO 527
Tensile Modulus, 1 mm/min	2550	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	85	MPa	ISO 178
Flexural Modulus, 2 mm/min	2400	MPa	ISO 178
Ball Indentation Hardness, H358/30	145	MPa	ISO 2039-1
Hardness, Rockwell R	117	-	ISO 2039-2
IMPACT			
Charpy Impact, unnotched, 23°C	NB	kJ/m ²	ISO 179/2C
Charpy Impact, unnotched, -30°C	80	kJ/m ²	ISO 179/2C
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	38	J/m	ASTM D256
Izod Impact, notched, 0°C	36	J/m	ASTM D256
Izod Impact, notched, -30°C	36	J/m	ASTM D256
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -30°C	100	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 0°C	4	kJ/m ²	ISO 180/1A

Izod Impact, notched 80*10*4 - 30°C	4		kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	4		kJ/m ²	ISO 179/2C
Charpy Impact, notched, -30°C	4		kJ/m ²	ISO 179/2C
THERMAL				
Vicat Softening Temp, Rate A/50	220		°C	ASTM D1525
Vicat Softening Temp, Rate B/50	185		°C	ASTM D1525
Ball Pressure Test, 125°C +/- 2°C	PASSES		-	IEC 60695-10-2
Vicat Softening Temp, Rate A/50	220		°C	ISO 306
Vicat Softening Temp, Rate B/50	185		°C	ISO 306
Vicat Softening Temp, Rate B/120	185		°C	ISO 306
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	150		°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	50		°C	ISO 75/Af
PHYSICAL				
Specific Gravity	1.31		-	ASTM D792
Mold Shrinkage on Tensile Bar, flow	1.3-2.0		%	SABIC method
Mold Shrinkage on Tensile Bar, xflow	1.1-2.0		%	SABIC method
Density	1.31		g/cm ³	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	20		cm ³ /10 min	ISO 1133
Melt Volume Rate, MVR at 250°C/5.0 kg	50		cm ³ /10 min	ISO 1133
Melt Viscosity, 260°C, 1500 sec-1	165		Pa-s	ISO 11443
Injection Molding				
Drying Temperature	110-120		°C	
Drying Time	2-4		Hrs	
Maximum Moisture Content	0.02		%	
Melt Temperature	250-270		°C	
Nozzle Temperature	240-260		°C	
Front - Zone 3 Temperature	245-265		°C	
Middle - Zone 2 Temperature	240-255		°C	

Rear - Zone 1 Temperature	230-245	°C
Hopper Temperature	40-60	°C
Mold Temperature	40-100	°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。