

SABIC VALOX™ PBT EH7020物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	57	MPa	ASTM D638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	103	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	4130	MPa	ASTM D790
IMPACT			
Izod Impact, unnotched, 23°C	389	J/m	ASTM D4812
Izod Impact, notched, 23°C	32	J/m	ASTM D256
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	187	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	105	°C	ASTM D648
CTE, -40°C to 40°C, flow	5.58E-05	1/°C	ASTM E831
PHYSICAL			
Specific Gravity	1.49	-	ASTM D792
Mold Shrinkage, flow, 1.5-3.2 mm	1.4-1.6	%	SABIC method
Mold Shrinkage, flow, 3.2-4.6 mm	1.5-1.6	%	SABIC method
Mold Shrinkage, xflow, 1.5-3.2 mm	1.3-1.4	%	SABIC method
Mold Shrinkage, xflow, 3.2-4.6 mm	1.4-1.5	%	SABIC method
ELECTRICAL			
Dielectric Strength, in oil, 3.2 mm	16.9	kV/mm	ASTM D149
Relative Permittivity, 50/60 Hz	3.1	-	ASTM D150
Relative Permittivity, 1 MHz	2.9	-	ASTM D150
Dissipation Factor, 50/60 Hz	0.0039	-	ASTM D150
Dissipation Factor, 1 MHz	0.014	-	ASTM D150
Injection Molding			
Drying Temperature	120	°C	
Drying Time	3-4	Hrs	
Drying Time (Cumulative)	12	Hrs	

Maximum Moisture Content	0.02	%
Melt Temperature	250-265	°C
Nozzle Temperature	245-260	°C
Front - Zone 3 Temperature	250-265	°C
Middle - Zone 2 Temperature	245-260	°C
Rear - Zone 1 Temperature	240-255	°C
Mold Temperature	65-90	°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

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