

SABIC VALOX™ PBT 732E物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	82	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	2	%	ASTM D638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	124	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	6890	MPa	ASTM D790
Hardness, Rockwell R	109	-	ASTM D785
IMPACT			
Izod Impact, unnotched, 23°C	534	J/m	ASTM D4812
Izod Impact, notched, 23°C	101	J/m	ASTM D256
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	215	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	198	°C	ASTM D648
CTE, -40°C to 40°C, flow	2.52E-05	1/°C	ASTM E831
CTE, 60°C to 138°C, flow	2.52E-05	1/°C	ASTM E831
PHYSICAL			
Specific Gravity	1.51	-	ASTM D792
Specific Volume	0.66	cm ³ /g	ASTM D792
Water Absorption, (23°C/24hrs)	0.07	%	ASTM D570
Mold Shrinkage, flow, 1.5-3.2 mm	0.3-0.4	%	SABIC method
Mold Shrinkage, flow, 3.2-4.6 mm	0.4-0.6	%	SABIC method
Mold Shrinkage, xflow, 1.5-3.2 mm	0.4-0.6	%	SABIC method
Mold Shrinkage, xflow, 3.2-4.6 mm	0.6-0.8	%	SABIC method
ELECTRICAL			
Volume Resistivity	1.E+17	Ω.cm	ASTM D257
Dielectric Strength, in oil, 3.2 mm	17.9	kV/mm	ASTM D149
Relative Permittivity, 50/60 Hz	3.53	-	ASTM D150

Relative Permittivity, 1 MHz	3.32	-	ASTM D150
Dissipation Factor, 50/60 Hz	0.008	-	ASTM D150
Dissipation Factor, 1 MHz	0.013	-	ASTM D150
FLAME CHARACTERISTICS			
UL Yellow Card Link	E121562-477264	-	-
Injection Molding			
Drying Temperature	120	°C	
Drying Time	3-4	Hrs	
Drying Time (Cumulative)	12	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	255-275	°C	
Nozzle Temperature	255-270	°C	
Front - Zone 3 Temperature	255-265	°C	
Middle - Zone 2 Temperature	250-260	°C	
Rear - Zone 1 Temperature	245-255	°C	
Mold Temperature	65-95	°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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