

SABIC VALOX™ PBT 430物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	106	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	3.1	%	ASTM D638
Tensile Modulus, 5 mm/min	8660	MPa	ASTM D638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	174	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	7810	MPa	ASTM D790
Hardness, Rockwell R	125	-	ASTM D785
IMPACT			
Izod Impact, unnotched, 23°C	857	J/m	ASTM D4812
Izod Impact, notched, 23°C	128	J/m	ASTM D256
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	223	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	208	°C	ASTM D648
Relative Temp Index, Elec	130	°C	UL 746B
Relative Temp Index, Mech w/impact	130	°C	UL 746B
Relative Temp Index, Mech w/o impact	140	°C	UL 746B
PHYSICAL			
Specific Gravity	1.52	-	ASTM D792
Specific Volume	0.65	cm ³ /g	ASTM D792
Water Absorption, (23°C/24hrs)	0.05	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm	0.5	%	SABIC method
Mold Shrinkage, flow, 1.5-3.2 mm	0.3-0.5	%	SABIC method
Mold Shrinkage, flow, 3.2-4.6 mm	0.5-0.8	%	SABIC method
Mold Shrinkage, xflow, 1.5-3.2 mm	0.4-0.6	%	SABIC method
Mold Shrinkage, xflow, 3.2-4.6 mm	0.6-0.9	%	SABIC method
Melt Flow Rate, 250°C/2.16 kgf	11.7	g/10 min	ASTM D1238

ELECTRICAL			
Arc Resistance, Tungsten {PLC}	5	PLC Code	ASTM D495
Hot Wire Ignition {PLC}	0	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	0	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	2	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	1	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Yellow Card Link	E207780-100140794	-	-
UL Recognized, 94HB Flame Class Rating	1.47	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	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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