

VALOX™ V2000DM resin

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

Unreinforced, directly metallizable PBT injection molding resin with high flow better release characteristics.

General Information			
Features	High liquidity		
	Good demoulding performance		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	35	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	34.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	2.1 - 2.4	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.080	%	ISO 62
Equilibrium, 23°C, 50% RH	0.34	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2810	MPa	ASTM D638
--	2600	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	59.0	MPa	ASTM D638
Yield	59.0	MPa	ISO 527-2/50
Fracture ³	40.0	MPa	ASTM D638
Fracture	55.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	20	%	ASTM D638
Yield	7.0	%	ISO 527-2/50
Fracture ⁵	100	%	ASTM D638
Fracture	15	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁶	2570	MPa	ASTM D790
-- ⁷	2500	MPa	ISO 178
Flexural Strength ⁸ (Yield, 50.0 mm Span)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ⁹ (23°C)	5.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	46	J/m	ASTM D256
-30°C ¹⁰	2.0	kJ/m ²	ISO 180/1A
23°C ¹¹	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (-30°C)	No Break		ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	54.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	54.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹²	53.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	185	°C	ASTM D1525, ISO 306/B120 9 ¹³
--	186	°C	ISO 306/B50
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	8.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	8.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	12	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 80	%	
Rear Temperature	232 - 249	°C	
Middle Temperature	238 - 254	°C	
Front Temperature	243 - 260	°C	
Nozzle Temperature	238 - 254	°C	
Processing (Melt) Temp	243 - 260	°C	
Mold Temperature	48.9 - 76.7	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	50 - 100	rpm	
Vent Depth	0.013 - 0.025	mm	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	Type 1, 50mm/min		
5.	Type 1, 50mm/min		
6.	1.3 mm/min		

7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4 sp=62mm
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	标准 B (120°C/h), 载荷2 (50N)

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