

VALOX™ 732E resin

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

30% glass/mineral reinforced, excellent thermal performance, low shrinkage and warp. Easy flow.

General Information	
UL YellowCard	E121562-477264
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight
Features	Good Flow
	Low Shrinkage
	Low Warpage
Processing Method	Injection Molding
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)
	Elastic Modulus vs Temperature (ASTM D4065)
	Flexural DMA (ASTM D4065)
	Instrumented Impact (Energy) (ASTM D3763)
	Instrumented Impact (Load) (ASTM D3763)
	Pressure-Volume-Temperature (PVT - Zoller Method)
	Shear DMA (ASTM D4065)
	Specific Heat vs. Temperature (ASTM D3417)
	Tensile Creep (ASTM D2990)
	Tensile Fatigue
	Tensile Stress vs. Strain (ASTM D638)
	Thermal Conductivity vs. Temperature (ASTM E1530)
	Viscosity vs. Shear Rate (ASTM D3835)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Specific Volume	0.663	cm ³ /g	ASTM D792
Molding Shrinkage			Internal Method
Flow ¹	0.30 to 0.40	%	
Flow ²	0.40 to 0.60	%	
Across Flow ³	0.60 to 0.80	%	
Across Flow ⁴	0.40 to 0.60	%	
Water Absorption (24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ⁵ (Break)	82.7	MPa	ASTM D638
Tensile Elongation ⁶ (Break)	2.0	%	ASTM D638
Flexural Modulus ⁷ (50.0 mm Span)	6890	MPa	ASTM D790
Flexural Strength ⁸ (Break, 50.0 mm Span)	124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Unnotched Izod Impact (23°C)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	216	°C	
1.8 MPa, Unannealed, 6.40 mm	199	°C	
CLTE - Flow			ASTM E831
-40 to 40°C	2.5E-5	cm/cm/°C	
60 to 138°C	2.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Strength (3.20 mm, in Oil)	18	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
50 Hz	3.53		
60 Hz	3.53		
1 MHz	3.32		
Dissipation Factor			ASTM D150
50 Hz	8.0E-3		
60 Hz	8.0E-3		
1 MHz	0.013		
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	12	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 80	%	
Rear Temperature	243 to 254	°C	
Middle Temperature	249 to 260	°C	
Front Temperature	254 to 266	°C	
Nozzle Temperature	254 to 271	°C	
Processing (Melt) Temp	254 to 277	°C	
Mold Temperature	65.6 to 93.3	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	50 to 80	rpm	
Vent Depth	0.025 to 0.038	mm	
NOTE			
1.	1.5 to 3.2 mm		

2.	3.2 to 4.6 mm
3.	3.2-4.6 mm
4.	1.5 to 3.2 mm
5.	Type I, 5.0 mm/min
6.	Type I, 5.0 mm/min
7.	1.3 mm/min
8.	1.3 mm/min

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