

VALOX™ 364 resin

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

Designed for outdoor telecommunications enclosure applications.

General Information	
UL YellowCard	E121562-220841
Uses	Outdoor Applications
	Telecommunications
Processing Method	Injection Molding
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)
	Flexural DMA (ASTM D4065)
	Pressure-Volume-Temperature (PVT - Zoller Method)
	Shear DMA (ASTM D4065)
	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	1.30	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.80 to 1.0	%	
Across Flow : 3.20 mm	0.80 to 1.0	%	
Outdoor Suitability	f2		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	46.9	MPa	
Break	40.0	MPa	
Tensile Elongation ²			ASTM D638
Yield	5.0	%	
Break	70	%	
Flexural Modulus ³ (50.0 mm Span)	1860	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 50.0 mm Span)	66.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	430	J/m	

-20°C	690	J/m	
23°C	750	J/m	
Instrumented Dart Impact			ASTM D3763
-40°C, Total Energy	47.5	J	
-20°C, Total Energy	44.7	J	
23°C, Total Energy	45.2	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	103	°C	
1.8 MPa, Unannealed, 3.20 mm	68.3	°C	
Vicat Softening Temperature			
--	115	°C	ASTM D1525 ⁵
--	122	°C	ISO 306/B120
CLTE			
Flow : -40 to 40°C	9.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	9.8E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	1.0E-4	cm/cm/°C	ISO 11359-2
RTI Elec	75.0	°C	UL 746
RTI Imp	75.0	°C	UL 746
RTI Str	75.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Arc Resistance ⁶	PLC 5		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.47 mm	V-0		
3.00 mm	5VA		
Oxygen Index	28	%	ASTM D2863
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	238 to 254	°C	
Middle Temperature	243 to 260	°C	
Front Temperature	249 to 266	°C	
Nozzle Temperature	243 to 260	°C	
Processing (Melt) Temp	249 to 266	°C	

Mold Temperature	48.9 to 76.7	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm
Vent Depth	0.025 to 0.038	mm

NOTE

- | | |
|----|------------------------------------|
| 1. | Type I, 50 mm/min |
| 2. | Type I, 50 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | Rate B (120°C/h), Loading 2 (50 N) |
| 6. | Tungsten Electrode |

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