

VALOX™ 771 resin

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

35% mineral/glass reinforced flame retardant grade with a CTI performance level class of 0 rating. Applications which may see electrical arcing.

General Information			
UL YellowCard	E121562-220821		
Filler / Reinforcement	Glass\Mineral,35% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
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)		
	Tensile Creep (ASTM D2990)		
	Tensile Fatigue		
	Tensile Stress vs. Strain (ASTM D638)		
	Thermal Conductivity vs. Temperature (ASTM E1530)		
Physical	Viscosity vs. Shear Rate (ASTM D3835)		
	Nominal Value	Unit	Test Method
	Specific Gravity	1.72	g/cm ³ ASTM D792
	Molding Shrinkage ¹		Internal Method
	Flow	0.65 to 0.85	%
Mechanical	Across Flow	1.0 to 1.2	%
	Nominal Value	Unit	Test Method
	Tensile Strength ² (Break)	72.4	MPaASTM D638
	Tensile Elongation ³ (Break)	2.3	%ASTM D638
	Flexural Modulus ⁴ (50.0 mm Span)	5860	MPaASTM D790
Impact	Flexural Strength ⁵ (Break, 50.0 mm Span)	110	MPaASTM D790
	Nominal Value	Unit	Test Method
	Notched Izod Impact (23°C)	43	J/mASTM D256
Thermal	Unnotched Izod Impact (23°C)	370	J/mASTM D4812
	Nominal Value	Unit	Test Method
	Deflection Temperature Under Load		ASTM D648
	0.45 MPa, Unannealed, 6.40 mm	217	°C
	1.8 MPa, Unannealed, 6.40 mm	196	°C
Ball Pressure Test (125°C)		Pass	IEC 60695-10-2

RTI Elec	140	°C	UL 746
RTI Imp	125	°C	UL 746
RTI Str	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Arc Resistance ⁶	PLC 4		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 0		UL 746
Hot-wire Ignition (HWI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.610 mm	V-2		
0.760 mm	V-0		
2.01 mm	5VA		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
3.00 mm ⁷	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	750	°C	
3.00 mm	800	°C	
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.	Tensile Bar		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		
6.	Tungsten Electrode		

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