



Valox* Resin 365

Americas: COMMERCIAL

Unreinforced, opaque, provides chemical resistance and dimensional stability, UL94V-0 rated at 0.031".

YPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	420	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	420	kgf/cm²	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	120	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	700	kgf/cm²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	700	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	22800	kgf/cm²	ASTM D 790
Hardness, Rockwell R	115	-	ASTM D 785
IMPACT			
Izod Impact, notched, 23°C	65	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	19	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -40°C	17	cm-kgf/cm	ASTM D 256
Gardner, 23°C	387	cm-kgf	ASTM D 3029
Modified Gardner, 23°C	387	cm-kgf	ASTM D 3029
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	129	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	121	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.84E-05	1/°C	ASTM E 831
CTE, -40°C to 95°C, flow	7.92E-05	1/°C	ASTM E 831
CTE, 60°C to 138°C, flow	8.28E-05	1/°C	ASTM E 831
Relative Temp Index, Elec	105	°C	UL 746B
Relative Temp Index, Mech w/impact	105	°C	UL 746B
Relative Temp Index, Mech w/o impact	105	°C	UL 746B
PHYSICAL			
Specific Gravity	1.33	-	ASTM D 792

Source GMD, last updated:

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⁽¹⁾ Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

⁽²⁾ Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Specific Volume	0.75	cm³/g	ASTM D 792
Water Absorption, 24 hours	0.14	%	ASTM D 570
Water Absorption, equilibrium, 23C	0.6	%	ASTM D 570
Mold Shrinkage, flow, 0.75-2.3 mm	0.8 - 1.1	%	SABIC Method
Mold Shrinkage, flow, 2.3-4.6 mm	1 - 1.4	%	SABIC Method
Mold Shrinkage, xflow, 0.75-2.3 mm	0.9 - 1.3	%	SABIC Method
Mold Shrinkage, xflow, 2.3-4.6 mm	1.2 - 1.6	%	SABIC Method
ELECTRICAL			
Dielectric Strength, in oil, 3.2 mm	12	kV/mm	ASTM D 149
Relative Permittivity, 100 Hz	8.5	-	ASTM D 150
Relative Permittivity, 1 MHz	5.7	-	ASTM D 150
Dissipation Factor, 100 Hz	0.002	-	ASTM D 150
Dissipation Factor, 1 MHz	0.03	-	ASTM D 150
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D 495
Hot Wire Ignition (PLC)	2	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	3	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	3	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	3	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	0.76	mm	UL 94
UL Recognized, 94-5VA Rating (3)	2.2	mm	UL 94
Oxygen Index (LOI)	28.8	%	ASTM D 2863
UV-light, water exposure/immersion	F2	-	UL 746C

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ROCESSING PARAMETERS	TYPICAL VALUE	Unit	
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	50 - 75	°C	
Back Pressure	0.3 - 0.7	MPa	
Screw Speed	50 - 100	rpm	
Shot to Cylinder Size	40 - 80	%	
Vent Depth	0.025 - 0.038	mm	

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