



PC/PBT, Unreinforced, impact modified, UL94V-0 rated. Applications like bobbins, switches and enclosures.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard		
MECHANICAL					
Tensile Stress, yld, Type I, 50 mm/min	480	kgf/cm ²	ASTM D 638		
Tensile Stress, brk, Type I, 50 mm/min	420	kgf/cm ²	ASTM D 638		
Tensile Strain, yld, Type I, 50 mm/min	5	%	ASTM D 638		
Tensile Strain, brk, Type I, 50 mm/min	54	%	ASTM D 638		
Tensile Modulus, 5 mm/min	20600	kgf/cm ²	ASTM D 638		
Flexural Stress, yld, 1.3 mm/min, 50 mm span	790	kgf/cm ²	ASTM D 790		
Flexural Stress, brk, 1.3 mm/min, 50 mm span	790	kgf/cm ²	ASTM D 790		
Flexural Modulus, 1.3 mm/min, 50 mm span	21400	kgf/cm ²	ASTM D 790		
Hardness, Rockwell R	117	-	ASTM D 785		
Tensile Stress, yield, 50 mm/min	50	MPa	ISO 527		
Tensile Stress, break, 50 mm/min	40	MPa	ISO 527		
Tensile Strain, yield, 50 mm/min	5	%	ISO 527		
Tensile Strain, break, 50 mm/min	30	%	ISO 527		
Tensile Modulus, 1 mm/min	2200	MPa	ISO 527		
Flexural Stress, yield, 2 mm/min	73	MPa	ISO 178		
Flexural Modulus, 2 mm/min	2000	MPa	ISO 178		
IMPACT					
Izod Impact, unnotched, 23°C	NB326	cm-kgf/cm	ASTM D 4812		
Izod Impact, notched, 23°C	32	cm-kgf/cm	ASTM D 256		
Izod Impact, notched, -30°C	15	cm-kgf/cm	ASTM D 256		
Gardner, 23°C	442	cm-kgf	ASTM D 3029		
Modified Gardner, 23°C	438	cm-kgf	ASTM D 3029		

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(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.

Source GMD, last updated:

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YPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
ІМРАСТ			
Instrumented Impact Total Energy, 23°C	365	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	45	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	10	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	45	kJ/m²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	134	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	135	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	98	°C	ASTM D 648
HDT, 0.45 MPa, 6.4 mm, unannealed	138	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	99	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.18E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.4E-05	1/°C	ASTM E 831
CTE, 60°C to 138°C, flow	1.24E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.2E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.4E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	145	°C	ISO 306
Vicat Softening Temp, Rate B/120	150	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	84	°C	ISO 75/Af
Relative Temp Index, Elec	120	°C	UL 746B
Relative Temp Index, Mech w/impact	120	°C	UL 746B
Relative Temp Index, Mech w/o impact	140	°C	UL 746B
PHYSICAL			
Specific Gravity	1.35	-	ASTM D 792
Specific Volume	0.74	cm³/g	ASTM D 792
Water Absorption, 24 hours	0.08	%	ASTM D 570

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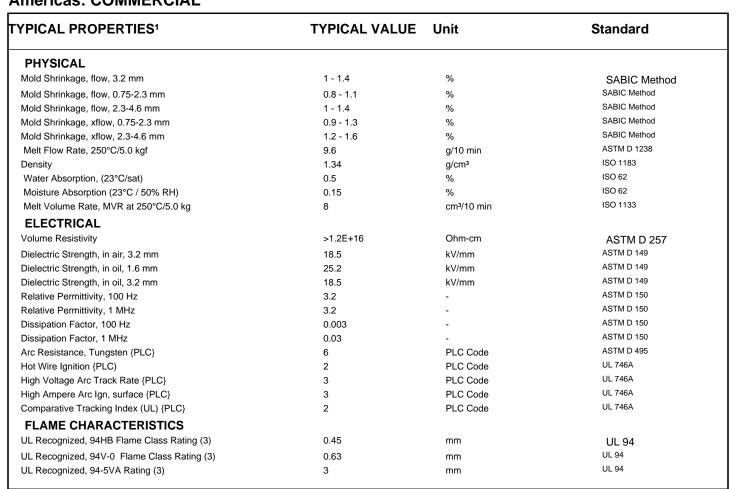
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Valox* Resin 357

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VA	LUE Unit	Standard
FLAME CHARACTERISTICS			
Oxygen Index (LOI)	30	%	ASTM D 2863
UV-light, water exposure/immersion	F2	-	UL 746C

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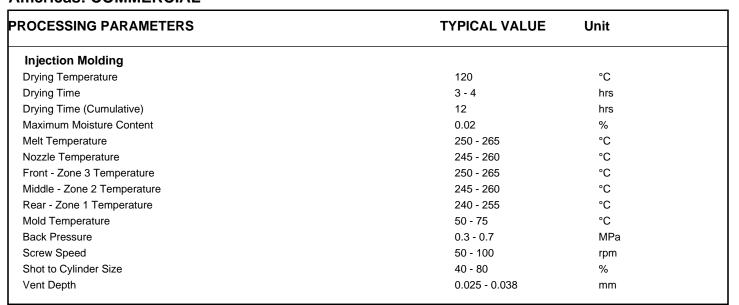
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