Valox* Resin 771



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

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, brk, Type I, 5 mm/min	72	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.3	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	110	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	5860	MPa	ASTM D 790
ІМРАСТ	Value	Unit	Standard
Izod Impact, unnotched, 23°C	373	J/m	ASTM D 4812
Izod Impact, notched, 23°C	42	J/m	ASTM D 256
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 6.4 mm, unannealed	217	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	196	°C	ASTM D 648
Relative Temp Index, Elec	140	°C	UL 746B
Relative Temp Index, Mech w/impact	125	°C	UL 746B
Relative Temp Index, Mech w/o impact	140	°C	UL 746B
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.72	-	ASTM D 792
Mold Shrinkage on Tensile Bar, flow (2)	0.65 - 0.85	%	SABIC Method
Mold Shrinkage on Tensile Bar, xflow (2)	1 - 1.2	%	SABIC Method
ELECTRICAL	Value	Unit	Standard
Arc Resistance, Tungsten {PLC}	4	PLC Code	ASTM D 495
Hot Wire Ignition {PLC)	0	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	0	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Recognized, 94V-2 Flame Class Rating (3)	0.6	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating (3)	0.76	mm	UL 94
UL Recognized, 94-5VA Rating (3)	2	mm	UL 94

Processing

Parameter **Injection Molding** Value Unit °C Drying Temperature 120 Drying Time 3 - 4 hrs Drying Time (Cumulative) 12 hrs Maximum Moisture Content 0.02 % °C Melt Temperature 255 - 275 °C Nozzle Temperature 255 - 270

Source GMD, last updated:12/29/1999



Front - Zone 3 Temperature	255 - 265	°C
Middle - Zone 2 Temperature	250 - 260	°C
Rear - Zone 1 Temperature	245 - 255	°C
Mold Temperature	65 - 95	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	50 - 80	rpm
Shot to Cylinder Size	40 - 80	%
Vent Depth	0.025 - 0.038	mm

Source GMD, last updated:12/29/1999

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(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.

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