

## Valox\* Resin 469

Asia Pacific: LIMITED USE

30% glass filled, flame retardant, utility grade polyester available in black only.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 50 mm/min	117	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	96	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	3	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	175	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	6890	MPa	ASTM D 790
<b>IMPACT</b>			
Izod Impact, notched, 23°C	53	J/m	ASTM D 256
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	187	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	187	°C	ASTM D 648
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	120	°C	UL 746B
<b>PHYSICAL</b>			
Specific Gravity	1.65	-	ASTM D 792
Water Absorption, 24 hours	0.06	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.4 - 0.8	%	SABIC Method
<b>ELECTRICAL</b>			
Volume Resistivity	1.5E+16	Ohm-cm	ASTM D 257
<b>FLAME CHARACTERISTICS</b>			
UL Recognized, 94V-2 Flame Class Rating (3)	0.7	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94
UL Recognized, 94-5VA Rating (3)	2.5	mm	UL 94

Source GMD, last updated:06/18/1999

### Processing

Parameter	Value	Unit
<b>Injection Molding</b>		
Drying Temperature	120	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	12	hrs
Melt Temperature	245 - 260	°C
Mold Temperature	70 - 90	°C

Source GMD, last updated:06/18/1999

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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