

Valox* Resin V9561

Americas: COMMERCIAL

Flame retardant PET, 30% Glass fiber filled. Offering a good balance in CTI , GWIT , High Heat and mechanical performances.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield, 5 mm/min	125	MPa	ISO 527
Tensile Stress, break, 5 mm/min	125	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2	%	ISO 527
Tensile Strain, break, 5 mm/min	2	%	ISO 527
Tensile Modulus, 1 mm/min	12000	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	190	MPa	ISO 178
Flexural Modulus, 2 mm/min	10750	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	7	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	7	kJ/m ²	ISO 179/1eA
THERMAL	Value	Unit	Standard
CTE, 23°C to 80°C, flow	1.9E-05	1/°C	ISO 11359-2
CTE, 23°C to 80°C, xflow	6.7E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	225	°C	ISO 306
Vicat Softening Temp, Rate B/120	230	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	230	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.71	g/cm ³	ISO 1183
Water Absorption, (23°C/sat)	0.05	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0.25	%	ISO 62
Melt Volume Rate, MVR at 280°C/5.0 kg	33	cm ³ /10 min	ISO 1133
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Compliant, 94V-0 Flame Class Rating (3)(4)	0.8	mm	UL 94 by GE

Source GMD, last updated:11/03/2006

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	120 - 130	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	270 - 290	°C
Nozzle Temperature	260 - 280	°C
Front - Zone 3 Temperature	270 - 290	°C
Middle - Zone 2 Temperature	260 - 280	°C
Rear - Zone 1 Temperature	250 - 270	°C
Hopper Temperature	40 - 60	°C
Mold Temperature	90 - 120	°C

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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