

VALOX™ V9561 resin

Polyethylene Terephthalate
SABIC Innovative Plastics Europe

Message:

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

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Flame retardancy		
Features	Heat resistance, high		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.72	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	33.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	0.050	%	ISO 62
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	125	MPa	ISO 527-2/5
Fracture	125	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	2.0	%	ISO 527-2/5
Fracture	2.0	%	ISO 527-2/5
Flexural Modulus ¹	10800	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	7.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact ³			ISO 180/1A
-30°C	7.0	kJ/m ²	ISO 180/1A
23°C	7.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	230	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	225	°C	ISO 306/B50
--	230	°C	ISO 306/B120

Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	1.9E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	6.7E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 130	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40.0 - 60.0	°C	
Rear Temperature	250 - 270	°C	
Middle Temperature	260 - 280	°C	
Front Temperature	270 - 290	°C	
Nozzle Temperature	260 - 280	°C	
Processing (Melt) Temp	270 - 290	°C	
Mold Temperature	90.0 - 120	°C	
NOTE			
1.	2.0 mm/min		
2.	80*10*4 sp=62mm		
3.	80*10*4		
4.	80*10*4 mm		

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