

VALOX™ SHF4960 resin

Polybutylene Terephthalate
SABIC Innovative Plastics Europe

Message:

VALOX Super high flow grade, 30% glass filled Flame retardant, High CTI, heat stabilized with mold release.

General Information			
UL YellowCard	E121562-643222		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
	demoulding		
	Flame retardancy		
Features	High liquidity		
	Thermal Stability		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	6.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	0.25	%	ISO 62
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	110	MPa	ISO 527-2/5
Fracture	110	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	1.8	%	ISO 527-2/5
Fracture	1.8	%	ISO 527-2/5
Flexural Modulus ¹	8500	MPa	ISO 178
Flexural Stress	165	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

Unnotched Izod Impact Strength ⁴ (-30°C)	36	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 64.0 mm Span)	195	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	185	°C	ISO 306/B50
--	195	°C	ISO 306/B120
Linear thermal expansion coefficient			ISO 11359-2
Flow: -40 to 40°C	2.5E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	1.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength			IEC 60243-1
0.800mm, in oil	35	kV/mm	IEC 60243-1
1.60mm, in oil	25	kV/mm	IEC 60243-1
3.20mm, in oil	18	kV/mm	IEC 60243-1
Comparative Tracking Index	275	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm, Testing by SABIC)	V-0		UL 94
Oxygen Index	32	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (250°C, 1500 sec ⁻¹)	92.0	Pa·s	ISO 11443
Injection	Nominal Value	Unit	
Drying Temperature	110 - 120	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40.0 - 60.0	°C	
Rear Temperature	230 - 245	°C	
Middle Temperature	240 - 255	°C	
Front Temperature	245 - 265	°C	
Nozzle Temperature	240 - 260	°C	
Processing (Melt) Temp	250 - 270	°C	
Mold Temperature	40.0 - 100	°C	
NOTE			
1.	2.0 mm/min		
2.	80*10*4 sp=62mm		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		

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