

VALOX™ 508 resin

Polycarbonate + PBT

SABIC Innovative Plastics

Message:

30% GR PBT+PC. Excellent mechanical and thermal performance. Non-flame retardant. Reduced warpage characteristics. Applications same as VALOX 420.

General Information			
UL YellowCard	E45587-236817	E207780-643579	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Low warpage		
Uses	Handle		
	Home appliance components		
	Connector		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Specific Volume	0.668	cm ³ /g	ASTM D792
Molding Shrinkage			Internal method
Flow ¹	0.30 - 0.50	%	Internal method
Flow ²	0.50 - 0.80	%	Internal method
Transverse flow ³	0.40 - 0.60	%	Internal method
Transverse flow ⁴	0.60 - 0.90	%	Internal method
Water Absorption (24 hr)	0.060	%	ASTM D570
Outdoor Suitability	f2		UL 746C
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁵ (Break)	110	MPa	ASTM D638
Flexural Modulus ⁶ (50.0 mm Span)	6890	MPa	ASTM D790
Flexural Strength ⁷ (Break, 50.0 mm Span)	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	80	J/m	ASTM D256
23°C	96	J/m	ASTM D256
Unnotched Izod Impact (23°C)	640	J/m	ASTM D4812
Instrumented Dart Impact			ASTM D3763
23°C, Energy at Peak Load	6.78	J	ASTM D3763
23°C, Total Energy	8.13	J	ASTM D3763

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	216	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	177	°C	ASTM D648
CLTE - Flow			ASTM E831
-40 to 40°C	2.3E-5	cm/cm/°C	ASTM E831
60 to 138°C	1.6E-5	cm/cm/°C	ASTM E831
RTI Elec	125	°C	UL 746
RTI Imp	110	°C	UL 746
RTI	125	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.9E+16	ohms · cm	ASTM D257
Dielectric Strength			ASTM D149
1.60 mm, in Oil	29	kV/mm	ASTM D149
3.20 mm, in Air	24	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
100 Hz	3.60		ASTM D150
1 MHz	3.60		ASTM D150
Dissipation Factor			ASTM D150
100 Hz	1.4E-3		ASTM D150
1 MHz	0.020		ASTM D150
Arc Resistance ⁸	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 4		UL 746
High Amp Arc Ignition (HAI)	PLC 3		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)	PLC 1		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.47 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	12	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 80	%	
Rear Temperature	238 - 254	°C	
Middle Temperature	243 - 260	°C	
Front Temperature	249 - 266	°C	
Nozzle Temperature	243 - 260	°C	
Processing (Melt) Temp	249 - 266	°C	
Mold Temperature	65.6 - 87.8	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	50 - 80	rpm	

Vent Depth	0.025 - 0.038	mm
NOTE		
1.	1.5 to 3.2 mm	
2.	3.2 to 4.6 mm	
3.	1.5 to 3.2 mm	
4.	3.2-4.6 mm	
5.	Type 1, 5.0 mm/min	
6.	1.3 mm/min	
7.	1.3 mm/min	
8.	Tungsten electrode	

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