

VALOX™ 430 resin

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

33 % glass reinforced, impact modified. Connectors, etc.

General Information	
UL YellowCard	E121562-220794
Filler / Reinforcement	Glass Fiber,33% Filler by Weight
Additive	Impact Modifier
Features	Impact Modified
Uses	Connectors
Processing Method	Injection Molding
Multi-Point Data	Shear DMA (ASTM D4065)
	Specific Heat vs. Temperature (ASTM D3417)
	Tensile Creep (ASTM D2990)
	Tensile Fatigue
	Tensile Stress vs. Strain (ASTM D638)
	Thermal Conductivity vs. Temperature (ASTM E1530)
	Viscosity vs. Shear Rate (ASTM D3835)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Specific Volume	0.650	cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow ¹	0.30 to 0.50	%	
Flow ²	0.50 to 0.80	%	
Flow : 3.20 mm	0.50	%	
Across Flow ³	0.40 to 0.60	%	
Across Flow ⁴	0.60 to 0.90	%	
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ⁵	8670	MPa	ASTM D638
Tensile Strength ⁶ (Break)	106	MPa	ASTM D638
Tensile Elongation ⁷ (Break)	3.1	%	ASTM D638
Flexural Modulus ⁸ (50.0 mm Span)	7810	MPa	ASTM D790

Flexural Strength ⁹ (Break, 50.0 mm Span)	174	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	130	J/m	ASTM D256
Unnotched Izod Impact (23°C)	860	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	223	°C	
1.8 MPa, Unannealed, 6.40 mm	208	°C	
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	140	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance ¹⁰	PLC 5		ASTM D495
Comparative Tracking Index (CTI)	PLC 1		UL 746
High Amp Arc Ignition (HAI)	PLC 2		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 0		UL 746
Hot-wire Ignition (HWI)	PLC 0		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.47 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	12	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 80	%	
Rear Temperature	238 to 254	°C	
Middle Temperature	243 to 260	°C	
Front Temperature	249 to 266	°C	
Nozzle Temperature	243 to 260	°C	
Processing (Melt) Temp	249 to 266	°C	
Mold Temperature	65.6 to 87.8	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	50 to 80	rpm	
Vent Depth	0.025 to 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.	5.0 mm/min		
6.	Type I, 5.0 mm/min		
7.	Type I, 5.0 mm/min		

8.	1.3 mm/min
9.	1.3 mm/min
10.	Tungsten Electrode

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