VALOX™ 430 resin

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

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

General Information			
UL YellowCard	E207780-100140794		
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Additive	Impact modifier		
Features	Impact modification		
Uses	Connector		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.52	g/cm³	ASTM D792
Specific Volume	0.650	cm³/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 - 0.50	%	Internal method
Flow [2]	0.50 - 0.80	%	Internal method
Flow: 3.20mm	0.50	%	Internal method
Transverse flow [3]	0.40 - 0.60	%	Internal method
Transverse flow [4]	0.60 - 0.90	%	Internal method
Water Absorption (24 hr)	0.050	%	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, 6.40mm	223	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	208	°C	ASTM D648

RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI	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 - 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.	5.0 mm/min
6.	Type 1, 5.0 mm/min
7.	Type 1, 5.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	Tungsten electrode

Recommended distributors for this material

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