

Veradel® LTG-3301

Polyethersulfone
Solvay Specialty Polymers

Message:

Veradel® LTG-3301 polyethersulfone (PESU) offers the ability to directly metalize high-quality reflective surfaces for applications that require high heat deflection, excellent toughness and dimensional stability. Other desirable properties include thermal stability, creep resistance, and low moisture absorption. The resin exhibits superior flow when injection molded. Potential applications include automotive headlamp reflectors, fog lamp reflectors, park and turn reflectors, and other applications where excellent surface finish for direct metallization is desired.

Veradel® LTG-3301 resin is available in a variety of colors.

Veradel® LTG-3000 BK 184 MR (black)

Veradel® LTG-3301 NT MR (natural)

General Information			
Features	Good dimensional stability		
	Low hygroscopicity		
	Good creep resistance		
	High liquidity		
	Heat resistance, high		
	Thermal stability, good		
	Good toughness		
	Excellent appearance		
Uses	Reflector		
	Metal substitution		
	Application in Automobile Field		
	Car exterior decoration		
RoHS Compliance	RoHS compliance		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.37	g/cm ³	ASTM D792
23°C	1.37	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	30	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.54	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	2650	MPa	ASTM D638

23°C, 4.00 mm ¹	2800	MPa	ISO 527-2
Tensile Stress			
Yield, 23°C, 4.00mm ²	88.0	MPa	ISO 527
--	82.7	MPa	ASTM D638
Tensile Elongation			
Yield	6.5	%	ASTM D638
Yield ³	6.7	%	ISO 527
Flexural Modulus			
--	2900	MPa	ASTM D790
--	2750	MPa	ISO 178
Flexural Strength	111	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.7	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Notched Izod Impact			
--	85	J/m	ASTM D256
--	6.4	kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength	No Break		ISO 180
Tensile Impact Strength	336	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	204	°C	ASTM D648
1.8 MPa, annealing, 4.00mm ⁴	213	°C	ISO 75-2/A
Vicat Softening Temperature	217	°C	ISO 306 ⁵
CLTE - Flow	4.9E-5	cm/cm/°C	ASTM D696
RTI Elec (0.79 mm)	180	°C	UL 746
RTI Imp (1.6 mm)	180	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.7E+15	ohms·cm	ASTM D257
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.51		ASTM D150
1 kHz	3.50		ASTM D150
1 MHz	3.54		ASTM D150
Dissipation Factor			ASTM D150
60 Hz	1.7E-3		ASTM D150
1 kHz	2.2E-3		ASTM D150
1 MHz	5.6E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	177	°C	

Drying Time	2.5	hr
Processing (Melt) Temp	343 - 385	°C
Mold Temperature	138 - 163	°C
Injection Rate	Fast	
Screw Compression Ratio	2.2:1.0	

NOTE

1.	1 mm/min
2.	50 mm/min
3.	50 mm/min
4.	annealed 1 hour at 200°C
5.	50°C/h, A (10N)

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