

Veradel® A-301 ULT

polyethersulfone

Veradel® A-301 ULT is a medium melt flow general purpose amorphous PESU resin for injection molding. This transparent grade offers a low amber color, high heat deflection temperature, excellent toughness and dimensional stability and resistance to mineral acids. Other desirable properties include thermal stability, creep resistance and inherent

flame resistance. Veradel® A-301 ULT is FDA compliant and is approved for direct food contact. This grade was formerly marketed as Radel® A PESU.

• Natural: Veradel® A-301 ULT NT

General

NATIONAL CONTRACTOR	0		
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	• Latin America	
	• Europe	North America	
Features	 Acid Resistant 	 Good Thermal Stability 	
	 Chemical Resistant 	 Good Toughness 	
	 Creep Resistant 	 High Heat Resistance 	
	 Flame Retardant 	 High Tensile Strength 	
	 Food Contact Acceptable 	 Hydrolysis Resistant 	
	 General Purpose 	 Medium Flow 	
	 Good Adhesion 	 Medium Molecular Weight 	
	 Good Dimensional Stability 	 Medium Rigidity 	
Uses	 Appliance Components 	 Electrical Parts 	
	 Appliances 	 Electrical/Electronic Applications 	
	 Automotive Electronics 	 Food Service Applications 	
	 Batteries 	 Industrial Applications 	
	 Business Equipment 	 Microwave Cookware 	
Agency Ratings	FDA Food Contact	• NSF STD-51 ¹	
RoHS Compliance	 RoHS Compliant 		
Automotive Specifications	• ASTM D6394 SP0213		
Appearance	• Black	• Transparent - Slight Yellow	
	Colors Available		
Forms	• Pellets		
Processing Method	 Compounding 	 Injection Molding 	

Typical Value Unit	lest method
1.37	ASTM D792
30 g/10 min	ASTM D1238
0.60 %	ASTM D955
0.50 %	ASTM D570
1.9 %	ASTM D570
	1.37 30 g/10 min 0.60 % 0.50 %

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Mechanical	Typical Value	Unit	Test method
Tensile Modulus	2690	MPa	ASTM D638
Tensile Strength	88.9	MPa	ASTM D638
Tensile Elongation (Yield)	6.5	%	ASTM D638
Flexural Modulus	2620	МРа	ASTM D790
Flexural Strength	125	МРа	ASTM D790
Impact	Typical Value	Unit	Test method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	200	°C	
CLTE - Flow	5.2E-5	cm/cm/°C	ASTM D696
Electrical	Typical 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		
1 kHz	3.50		
1 MHz	3.54		
Dissipation Factor			ASTM D150
60 Hz	1.7E-3		
1 kHz	2.2E-3		
1 MHz	5.6E-3		
Flammability	Typical Value	Unit	Test method
Flame Rating			UL 94
0.8 mm, NT	V-0		
1.5 mm, BK ²	V-0		
Injection	Typical Value	Unit	
Drying Temperature	175	°C	
Drying Time	2.5	hr	
Processing (Melt) Temp	345 to 385	°C	
Mold Temperature	149	°C	
Screw Compression Ratio	2.2:1.0		

Notes

Typical properties: these are not to be construed as specifications.

¹ NT only

² These flammability ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

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