

Veradel® HC A-301

Polyethersulfone
Solvay Specialty Polymers

Message:

Veradel A- 301 is a medium melt flow rate polyethersulfone (PESU), which is transparent, has high thermal deformation temperature, excellent toughness and dimensional stability, and is resistant to steam, boiling water and inorganic acids. Other excellent characteristics include thermal stability, creep resistance and inherent flame retardancy. Veradel A- 301 is recommended for conventional injection molding. Compliance with ITIS FDA standards, direct contact with food. Veradel A- 201 with low melt flow rate is available for extrusion and injection molding. The brand was originally named Radel®A PESU sales.
natural color: Veradel A- 301 NT

General Information	
Features	Good dimensional stability
	Radioactive permeable
	High tensile strength
	Ethylene oxide disinfection
	Anti-gamma radiation
	Good electrical performance
	Good creep resistance
	Good adhesion
	Medium liquidity
	Good chemical resistance
	alkali resistance
	Heat resistance, high
	Hydrolysis resistance
	acid resistance
	Detergent resistance
	Thermal stability, good
	Good toughness
	Biocompatibility
	Compliance of Food Exposure
	General
Uses	Disinfect with steam
	Medium molecular weight
	Medium hardness
	Flame retardancy
	Biopharma Processing
	Medical Device Housings
	Transparent or Translucent Accessories
	Medical/nursing supplies
	Medical equipment

Medical devices

Agency Ratings	FDA Food Exposure, Not Rated ISO 10993 USP Class VI		
RoHS Compliance	RoHS compliance		
Appearance	Transparent-Slightly Yellow		
Forms	Particle		
Processing Method	Composite Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Water Absorption - 30 days	1.9	%	ASTM D570
Mechanical	Nominal 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	MPa	ASTM D790
Flexural Strength	125	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	200	°C	ASTM D648
CLTE - Flow	5.2E-5	cm/cm/°C	ASTM D696
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 ¹ (1.5 mm)	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	175	°C
Drying Time	2.5	hr
Processing (Melt) Temp	345 - 385	°C
Mold Temperature	149	°C
Screw Compression Ratio	2.2:1.0	
NOTE		

1. These flammability ratings do not represent the risk of these materials or any other materials in actual fire situations.

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