Acudel® 22000

Modified Polyphenylsulfone

Solvay Specialty Polymers

Message:

Acudel 22000 is a high-temperature, high-performance modified polyphenyl sulfone resin composite material with very good hydrolysis stability, excellent acid and alkali resistance, and good stress cracking resistance in various chemical environments. In addition, Acudel 22000 resin has excellent toughness, although its crack resistance is slightly lower than that of Radel. ® polyphenylsulfone, but better than Udel ® Polysulfone and Veradel ® Polyethersulfone. Overall, the performance of Acudel 22000 is between polysulfone and polyphenylsulfone. In addition to good mechanical and thermal properties, Acudel 22000 resins have excellent electrical properties and inherent flame retardancy over a wide temperature range. -natural color: Acudel 22000 NT15-black: Acudel 22000 BK937 customers can color by themselves

General Information UL YellowCard E36098-628753 Features High ESCR (Stress Cracking Resistance) Good chemical resistance alkali resistance Heat resistance, high acid resistance Thermal stability, good Good toughness Hydrolysis stability Flame retardancy Uses Pipe components Piping system Connector Accessories Agency Ratings NSF 51 3 NSF 61 4 **RoHS** Compliance **RoHS** compliance Black Appearance Available colors Light beige Forms Particle Processing Method Injection molding Multi-Point Data Isothermal Stress vs. Strain (ISO 11403-1) Physical Nominal Value Unit Test Method Specific Gravity 1.28 ASTM D792 g/cm³

Melt Mass-Flow Rate (MFR) (380°C/2.16			
kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.70	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Water absorption-(30 days)	0.90	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2690	MPa	ASTM D638
Tensile Strength	77.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	6.7	%	ASTM D638
Fracture	50	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength (Yield)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Tensile Impact Strength	368	kJ/m²	ASTM D1822
	Newsia et Meluce		
Inermal	Nominal value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)	197	°C	ASTM D648
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm) Electrical	197 Nominal Value	°C Unit	ASTM D648 Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm) Electrical Volume Resistivity	Nominal Value Nominal Value > 9.0E+15	°C Unit ohms·cm	ASTM D648 Test Method ASTM D257
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm) Electrical Volume Resistivity Dielectric Strength (3.18 mm)	Nominal Value 197 Nominal Value > 9.0E+15 19	°C Unit ohms∙cm kV/mm	ASTM D648 Test Method ASTM D257 ASTM D149
Thermal Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm) Electrical Volume Resistivity Dielectric Strength (3.18 mm) Dielectric Constant (1 MHz)	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40	°C Unit Ohms∙cm kV/mm	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150
Thermal Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm) Electrical Volume Resistivity Dielectric Strength (3.18 mm) Dielectric Constant (1 MHz) Dissipation Factor (1 MHz)	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40 8.0E-3	°C Unit ohms∙cm kV/mm	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150 ASTM D150
InermalDeflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)ElectricalVolume ResistivityDielectric Strength (3.18 mm)Dielectric Constant (1 MHz)Dissipation Factor (1 MHz)Injection	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40 8.0E-3 Nominal Value	°C Unit ohms∙cm kV/mm	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150 ASTM D150
InermalDeflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)ElectricalVolume ResistivityDielectric Strength (3.18 mm)Dielectric Constant (1 MHz)Dissipation Factor (1 MHz)InjectionDrying Temperature	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40 8.0E-3 Nominal Value 177	°C Unit ohms∙cm kV/mm Unit Unit	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150 ASTM D150
InermalDeflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)ElectricalVolume ResistivityDielectric Strength (3.18 mm)Dielectric Constant (1 MHz)Dissipation Factor (1 MHz)InjectionDrying TemperatureDrying Time	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40 8.0E-3 Nominal Value 177 2.5	C C Unit ohms·cm kV/mm Unit C hr	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150 ASTM D150
ThermalDeflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)ElectricalVolume ResistivityDielectric Strength (3.18 mm)Dielectric Constant (1 MHz)Dissipation Factor (1 MHz)InjectionDrying TemperatureDrying TimeProcessing (Melt) Temp	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40 8.0E-3 Nominal Value 177 2.5 360 - 391	C C Unit ohms∙cm kV/mm Unit C hr ℃	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150 ASTM D150
ThermalDeflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)ElectricalVolume ResistivityDielectric Strength (3.18 mm)Dielectric Constant (1 MHz)Dissipation Factor (1 MHz)InjectionDrying TemperatureDrying TimeProcessing (Melt) TempMold Temperature	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40 8.0E-3 Nominal Value 177 2.5 360 - 391 138 - 163	C C Unit ohms·cm kV/mm Unit Unit C C C C	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150 ASTM D150
ThermalDeflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)ElectricalVolume ResistivityDielectric Strength (3.18 mm)Dielectric Constant (1 MHz)Dissipation Factor (1 MHz)InjectionDrying TemperatureDrying TimeProcessing (Melt) TempMold TemperatureInjection Rate	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40 8.0E-3 Nominal Value 177 2.5 360 - 391 138 - 163 Fast	°C Unit ohms∙cm kV/mm Unit °C hr °C °C	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150 ASTM D150
InermalDeflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)ElectricalVolume ResistivityDielectric Strength (3.18 mm)Dielectric Constant (1 MHz)Dissipation Factor (1 MHz)InjectionDrying TemperatureDrying TimeProcessing (Melt) TempMold TemperatureInjection RateScrew Compression Ratio	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40 8.0E-3 Nominal Value 177 2.5 360 - 391 138 - 163 Fast 2.2:1.0	℃ Unit ohms•cm kV/mm Unit °C hr °C °C °C °C Solution °C Number °C	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150 ASTM D150
InermalDeflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)ElectricalVolume ResistivityDielectric Strength (3.18 mm)Dielectric Constant (1 MHz)Dissipation Factor (1 MHz)InjectionDrying TemperatureDrying TimeProcessing (Melt) TempMold TemperatureInjection RateScrew Compression RatioInjection instructions	Nominal Value 197 Nominal Value > 9.0E+15 19 3.40 8.0E-3 Nominal Value 177 2.5 360 - 391 138 - 163 Fast 2.2:1.0	°C Unit ohms·cm kV/mm Unit °C hr °C °C °C Image: Stress of the stress o	ASTM D648 Test Method ASTM D257 ASTM D149 ASTM D150 ASTM D150

建议最低干燥要求为:350 °F (177℃)温度下2.5小时,或300 °F(149 ℃)温度下4小时.

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