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
Appearance	Black 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	g/cm³	ASTM D792

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/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)	197	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 9.0E+15	ohms·cm	ASTM D257
Dielectric Strength (3.18 mm)	19	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.40		ASTM D150
Dissipation Factor (1 MHz)	8.0E-3		ASTM D150
Injection	**Nominal Value**	**Unit**	
Drying Temperature	177	°C	
Drying Time	2.5	hr	
Processing (Melt) Temp	360 - 391	°C	
Mold Temperature	138 - 163	°C	
Injection Rate	Fast		
Screw Compression Ratio	2.2:1.0		
Injection instructions			

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

Recommended distributors for this material

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