

Amodel® AE-8930

Polyphthalamide
Solvay Specialty Polymers

Message:

Amodel AE-8133 is a 33% glass fiber reinforced polyphthalamide (PPA), which is specially used in modern automotive electronic environment. This brand of resin is characterized by high thermal deformation temperature, high flexural modulus and high tensile strength, and has good creep resistance and low moisture absorption.

-black: AE-8133 BK902

-natural color: AE-8133 NT

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability		
	Low hygroscopicity		
	Rigidity, high		
	Rigid, good		
	High strength		
	High temperature strength		
	Good creep resistance		
	Good chemical resistance		
	Heat resistance, high		
	Ethylene glycol resistance		
Uses	Non-corrosive		
	Electrical/Electronic Applications		
	Electrical components		
	Connector		
RoHS Compliance	Automotive Electronics		
	Contact manufacturer		
	Black		
	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	210	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.3	%	ISO 527-2
Flexural Modulus (23°C)	11000	MPa	ISO 178
Flexural Stress (23°C)	300	MPa	ISO 178

Flexural Strain	2.9	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.2	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	56	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	7.2	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	°C	ISO 75-2/A
Glass Transition Temperature	135	°C	DSC
Melting Temperature	325	°C	ISO 11357-3
Electrical	Nominal Value		Test Method
Dielectric Constant			ASTM D150
60 Hz	4.35		ASTM D150
1 MHz	4.02		ASTM D150
Dissipation Factor (60 Hz)	7.0E-3		ASTM D150
Flammability	Nominal Value		Test Method
Flame Rating ¹ (3.20 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.030 - 0.060	%	
Rear Temperature	316 - 330	°C	
Middle Temperature	316 - 330	°C	
Front Temperature	324 - 340	°C	
Processing (Melt) Temp	330 - 350	°C	
Mold Temperature	150 - 165	°C	
Injection instructions			
射出速度:3-4英寸/秒 (7.5-10 cm/秒)保压压力: 射出压力的50%			
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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