Amodel® AS-4133 L

Polyphthalamide

Solvay Specialty Polymers

Message:

Amodel AS- 4133 L 33% glass fiber reinforced, lubricated, structural grade polyphthalamide (PPA), fast processing cycle, warm water can be formed. Conventional uses include electrical and electronic components. -Black: AS-4133 L BK 324 natural color: AS-4133 L NT

General Information			
UL YellowCard	E95746-253241 E95746-253242		
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Additive	Lubricant		
Features	Good dimensional stability		
	Low hygroscopicity		
	Rigid, good		
	High strength		
	Fast molding cycle		
	Good creep resistance		
	Good chemical resistance		
	Hot water formability		
	Lubrication		
Uses	Electrical/Electronic Applications		
	Power/other tools		
	Valve/valve components		
	Industrial application		
	Thick wall fittings (parts)		
	Machine/mechanical parts		
	Metal substitution		
	Parts under the hood of a car		
	Automotive Electronics		
	Application in Automobile Field		
	Mobile phone		
	General		
	Shell		
		_	
RoHS Compliance	RoHS compliance		
Appearance	Black		
	Natural color		
Forms	Particle		

Processing Method		ter temperature mold injection r			
Physical	Dry	Conditioned	Unit	Test Method	
Specific Gravity	1.45		g/cm³	ASTM D792, ISO 1183/A	
Molding Shrinkage				ASTM D955	
Flow	0.50		%	ASTM D955	
Transverse flow	1.0		%	ASTM D955	
Water Absorption ¹ (23°C, 24 hr)	0.29		%	ASTM D792	
Mechanical	Dry	Conditioned	Unit	Test Method	
Tensile Modulus	11700	11700	МРа	ASTM D638	
Tensile Strength (Break)	200	172	MPa	ASTM D638	
Tensile Elongation (Break)	2.5	2.2	%	ASTM D638	
Flexural Modulus	11000	11000	MPa	ASTM D790	
Flexural Strength (Yield)	290	241	MPa	ASTM D790	
Compressive Strength	179	172	MPa	ASTM D695	
Shear Strength	90.0	75.8	MPa	ASTM D732	
Poisson's Ratio	0.41			ASTM E132	
Impact	Dry	Conditioned	Unit	Test Method	
Notched Izod Impact	80	69	J/m	ASTM D256	
Unnotched Izod Impact	960		J/m	ASTM D256	
Thermal	Dry	Conditioned	Unit	Test Method	
Deflection Temperature Under Load				ASTM D648	
0.45 MPa, annealed, 3.18mm	320		°C	ASTM D648	
1.8 MPa, annealed, 3.18mm	300		°C	ASTM D648	
Melting Temperature	327		°C	ASTM D570, DSC	
Linear thermal expansion coefficient				ASTM E831	
Flow: 0 to 90°C	2.2E-5		cm/cm/°C	ASTM E831	
Flow: 149 to 249°C	1.4E-5		cm/cm/°C	ASTM E831	
Lateral: 0 to 90°C	5.9E-5		cm/cm/°C	ASTM E831	
Lateral: 149 to 249°C	1.2E-4		cm/cm/°C	ASTM E831	
Electrical	Dry	Conditioned	Unit	Test Method	
Comparative Tracking Index (CTI)	600	600	V	UL 746	
High Voltage Arc Tracking Rate (HVTR)	14.0	18.0	mm/min	UL 746	
Flammability	Dry	Conditioned	Unit	Test Method	
Flame Rating ² (3.18 mm)	НВ			UL 94	
Injection	Dry	Unit			
Drying Temperature	120 - 135		°C		
Drying Time	4.0		hr		

Suggested Max Moisture	0.045	%
Rear Temperature	318 - 324	°C
Front Temperature	327 - 332	°C
Processing (Melt) Temp	329 - 343	°C
Injection instructions		

Storage:

Amodel® compounds are shipped in moisture-resistant packages at moisture levels according to specifications. Sealed, undamaged bags should be preferably stored in a dry room at a maximum temperature of 50°C (122°F) and should be protected from possible damage. If only a portion of a package is used, the remaining material should be transferred into a sealable container. It is recommended that Amodel® resins be dried prior to molding following the recommendations found in this datasheet and/or in the Amodel® processing guide.

NOTE	
1.	General 0.29%, up to 1.07%
	These flammability ratings
	do not represent the risk of
	these materials or any
	other materials in actual
2.	fire situations.

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