

NHU-PPA N100

Polyphthalamide
Zhejiang NHU Comp. Ltd.

Message:

PPA is a kind of semi-crystalline and semi-aromatic polyamide, it offers high temperature resistance, good mechanical properties, oil resistance, low water absorption, good dimensional stability, good processability and it also has good environmental performance. It is remarkably stable at high temperature and retains its excellent mechanical and electrical properties in high humidity and chemically aggressive environments.

Applications
Owing to its high performance, there is a wide range of applications of PPA, including under bonnet automotive components, electronic devices and domestic appliances. Its product covers glass-filled, impact-modified, mineral-filled, high-flow, flame- retardant, high-reflectivity and electrical grades.

General Information			
Features	Semicrystallization		
	Good dimensional stability		
	Environmental protection		
	Workability, good		
	Good electrical performance		
	Good chemical resistance		
	Heat resistance, high		
	Oil resistance		
	Low or no water absorption		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Parts under the hood of a car		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Viscosity Number	70.0 - 90.0	cm³/g	ISO 307
Moisture Content ¹		%	
Ash Content		%	ISO 3451
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	128 - 138	°C	ISO 11357-2
Melting Temperature	310 - 320	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	4.0 - 5.0	hr	
Rear Temperature	315 - 325	°C	
Middle Temperature	320 - 330	°C	
Front Temperature	325 - 335	°C	

Nozzle Temperature	325 - 335	°C
Mold Temperature	130 - 140	°C
Injection Pressure	120	MPa
Injection Rate	Fast	
Holding Pressure	65.0	MPa
Screw Speed	< 150	rpm
Extrusion	Nominal Value	Unit
Drying Temperature	120 - 140	°C
Drying Time	4.0 - 5.0	hr
Cylinder Zone 1 Temp.	250 - 280	°C
Cylinder Zone 2 Temp.	315 - 340	°C
Cylinder Zone 3 Temp.	315 - 340	°C
Die Temperature	300 - 320	°C
NOTE		
1.	150°C, 0.3 hour	

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