

Nypel® RC6024 BK

Polyamide 6

BASF Corporation

Message:

Nypel RC6024 BK is a semi crystalline, heat stabilized, low viscosity, 30% mineral and glass fiber reinforced black injection molding compound produced with at least 20% recycled PA6 feedstocks. It possesses a balance of engineering properties in combination with excellent dimensional stability, good flow and processability, low warp and good chemical, abrasion and sink-mark formation resistance. This product is a regional grade available in North America only.

Applications

Nypel RC6024 BK is generally recommended for applications such as rotors, wheels, rims, timing belt covers, automotive cooling fans, engine covers and shrouds.

General Information			
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight		
Additive	Heat Stabilizer		
Recycled Content	Yes,20%		
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Flow		
	Good Processability		
	Heat Stabilized		
	Low Viscosity		
	Low Warpage		
	Semi Crystalline		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Under the Hood		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	90.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.2	%	ISO 527-2
Flexural Modulus (23°C)	8000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	3.8	kJ/m ²	
23°C	4.2	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	°C	ISO 75-2/A
Injection	Nominal Value	Unit	
Drying Temperature	83.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	270 to 295	°C	
Mold Temperature	80.0 to 95.0	°C	
Injection Pressure	3.45 to 10.3	MPa	
Injection Rate	Fast		

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