

# Nypel® RC5035 BK

Polyamide 66

BASF Corporation

## Message:

Nypel RC5035 BK is a 35% glass fiber reinforced, injection molding compound produced with at least 20% recycled PA66 feedstock. This product is a regional grade available in North America only.

Nypel RC5035 BK is generally recommended for applications such as automotive components, industrial housings, caps, bolts, and racks

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Recycled Content	Yes		
Uses	Automotive Applications		
	Bolts		
	Caps		
	Housings		
	Industrial Applications		
	Racks		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	155	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.3	%	ISO 527-2
Flexural Modulus (23°C)	10500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact Strength (23°C)	7.5	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	237	°C	ISO 75-2/A
Melting Temperature (DSC)	260	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	280 to 305	°C	

Mold Temperature	80.0 to 90.0	°C
Injection Pressure	3.45 to 10.3	MPa
Injection Rate	Fast	

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