

Nypel® RC5053 BK

Polyamide 66

BASF Corporation

Message:

Nypel RC5053 BK is a 40% glass/mineral reinforced injection molding grade produced with at least 20% recycled PA66 feedstock. This product is a regional grade available in North America only.

Nypel RC5053 BK is generally recommended for applications such as automotive components (cylinder head covers), industrial housings, and parts requiring elevated temperature and dimensional stability requirements.

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Recycled Content	Yes,20%		
Uses	Automotive Applications		
	Housings		
	Industrial Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	130	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.1	%	ISO 527-2
Flexural Modulus (23°C)	10400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.4	kJ/m ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	5.3	kJ/m ²	
23°C	6.2	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	217	°C	ISO 75-2/A
Melting Temperature (DSC)	256	°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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Recommended distributors for this material

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