

Product description

Nypel® RC6024 BK01 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.

Nypel® RC6024 BK01 is generally recommended for applications such as rotors, wheels, rims, timing belt covers, automotive cooling fans, engine covers and shrouds.

Injection Molding**PROCESSING**

injection molding, Melt temperature, range 270 - 295

injection molding, Mold temperature, range 80 - 95

Material Handling

Max. Water content: 0.15%

Material is supplied in sealed containers and drying prior to molding in a dehumidifying or desiccant dryer is recommended. Drying parameters are dependent upon the actual percentage of moisture in the pellets and typical pre-drying conditions are 2-4 hours at 180F (83C). Further information concerning safe handling procedures can be obtained from the Safety Data Sheet (MSDS), or by contacting your BASF representative.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.

Typical values for uncoloured product at 23 °C ¹⁾	Test method	Unit	Values ²⁾
Properties			dry / cond.
Polymer abbreviation	-	-	PA6
Filler content: Glass fiber (GF), glass balls (GB), Mineral (M)	-	%	GF30
Density	ISO 1183	kg/m ³	1400 / -
Processing			
Melt temperature, Injection moulding/Extrusion	-	°C	270 - 295
Mould temperature, Injection moulding	-	°C	80 - 95
Mechanical properties			dry / cond.
Tensile modulus	ISO 527-1/-2	MPa	8000 / -
Yield stress, 50 mm/min	ISO 527-1/-2	MPa	90 / -
Yield strain, 50 mm/min	ISO 527-1/-2	%	3.2 / -
Flexural modulus	ISO 178	MPa	8000 / -
Charpy notched impact strength (23°C)	ISO 179/1eA	kJ/m ²	3.5 / -
Izod notched impact strength (23°C)	ISO 180/A	kJ/m ²	4.2 / -
Izod notched impact strength (-40°C)	ISO 180/A	kJ/m ²	3.8 / -
Thermal properties			dry / cond.
HDT A (1.80 MPa)	ISO 75-1/-2	°C	190

Footnotes

1) If product name or properties don't state otherwise.

2) The asterisk symbol "*" signifies inapplicable properties.