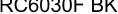
Nypel[®] **Product Information**

RC6030F BK



PA₆



Product description

10/2023

Nypel® RC6030F BK is a 30% glass fiber reinforced, injection molding compound produced with 25% post-consumer recycled polymer content. This product is a regional grade available in North America only.

Nypel® RC6030F BK is generally recommended for applications such as bolts, racks, automotive underhood components, pressure regulator housings and caps.

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.

Nypel® RC6030F BK





Typical values for uncoloured product at 23 °C ¹⁾	Test method	Unit	Values ²⁾
Properties dry / cond.			
Polymer abbreviation Filler content: Glass fiber (GF), glass balls (GB), Mineral (M) Density Water absorption, 24 h in water, 23 °C Moisture absorption, equilibrium 23°C/50% r.h. Water absorption, equilibrium in water at 23°C	- ISO 1183 ISO 62 similar to ISO 62 similar to ISO 62	- % kg/m³ % %	PA6 GF30 1350 / - 1.1 1.9 6.7
Processing			
Melt temperature, Injection moulding/Extrusion Mould temperature, Injection moulding	-	°C	270 - 295 80 - 95
Mechanical properties			dry / cond.
Tensile modulus Yield stress, 50 mm/min Yield strain, 50 mm/min Flexural strength Flexural modulus Charpy unnotched impact strength (23°C) Charpy notched impact strength (23°C) Charpy notched impact strength (-30°C)	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eU ISO 179/1eA	MPa MPa % MPa MPa kJ/m² kJ/m²	9660 / - 154 / - 2.5 / - 230 / - 8380 / - 56 / - 8.5 / - 8 / -
Thermal properties			dry / cond.
Melting temperature, DSC HDT A (1.80 MPa) HDT B (0.45 MPa) Coefficient of linear thermal expansion, longitudinal (23-80)°C Coefficient of linear thermal expansion, transverse(23-80)°C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2 ISO 11359-1/-2 ISO 11359-1/-2	°C °C °C E-6/K E-6/K	218 203 218 25 67

If product name or properties don't state otherwise.
 The asterisk symbol '*' signifies inapplicable properties.