

Product description

Nypel® 2314 HS BK6 is a black pigmented, low viscosity, heat stabilized, semi crystalline, injection molding compound. It also offers the following: good chemical and thermal aging resistance, good flow and processability, as well as good dimensional stability.

Nypel® 2314 HS BK6 is generally recommended for applications such as hardware, handles, clips and fasteners.

Injection Molding**PROCESSING**

injection molding, Melt temperature, range 240 - 285

injection molding, Mold temperature, range 65 - 80

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 (83°C). Further information concerning safe handling procedures can be obtained from 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)	-	%	-
Density	ISO 1183	kg/m ³	1130 / -
Water absorption, 24 h in water, 23 °C	ISO 62	%	1.6
Moisture absorption, equilibrium 23°C/50% r.h.	similar to ISO 62	%	2.7
Water absorption, equilibrium in water at 23°C	similar to ISO 62	%	9.5
Processing			
Melt temperature, Injection moulding/Extrusion	-	°C	240 - 285
Mould temperature, Injection moulding	-	°C	65 - 80
Flammability			
Burning Behav. at 1.5 mm nom. thickn.	IEC 60695-11-10	class	HB
UL 94 rating at 3 mm thickness	UL-94, IEC 60695	class	HB
RTI, electrical, d = 1.6 mm	UL-746B	°C	65
RTI, electrical, d = 3.2 mm	UL-746B	°C	65
RTI, mechanical, under impact stress, d = 1.6 mm	UL-746B	°C	65
RTI, mechanical, under impact stress, d = 3.2 mm	UL-746B	°C	65
RTI, mechanical, without impact stress, d = 1.6 mm	UL-746B	°C	65
RTI, mechanical, without impact stress, d = 3.2 mm	UL-746B	°C	65
Mechanical properties			dry / cond.
Yield stress, 50 mm/min	ISO 527-1/-2	MPa	80 / -
Yield strain, 50 mm/min	ISO 527-1/-2	%	44 / -
Flexural modulus	ISO 178	MPa	2620 / -
Izod notched impact strength (23°C)	ISO 180/A	kJ/m ²	5.5 / -
Thermal properties			dry / cond.
Melting temperature, DSC	ISO 11357-1/-3	°C	220
HDT A (1.80 MPa)	ISO 75-1/-2	°C	58

Footnotes

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

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