Product Information **Nypel®**

2314 HS BK6

10/2023 **PA6**

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

BASF Corporation
48192 Wyandotte, USA

Nypel® 2314 HS BK6

Product Information

We create chemistry

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/m³	**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/m²	**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.

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