

Nypel® 2314 HS BK6

Polyamide 6

BASF Corporation

Message:

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.

Applications

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

General Information			
UL YellowCard	E36632-231101		
Additive	Heat Stabilizer		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Flow		
	Good Processability		
	Good Thermal Aging Resistance		
	Heat Stabilized		
	Low Viscosity		
Uses	Semi Crystalline		
	Fasteners		
	Handles		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	1.6	%	
Saturation, 23°C	9.5	%	
Equilibrium, 23°C, 50% RH	2.7	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	80.0	MPa	ISO 527-2
Nominal Tensile Strain at Break (23°C)	44	%	ISO 527-2
Flexural Modulus (23°C)	2620	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	5.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	58.0	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
RTI Elec			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Imp			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Str			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
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	240 to 285	°C	
Mold Temperature	65.0 to 80.0	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

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