

Nypel® 6030G HS BK

Polyamide 6

BASF Corporation

Message:

Nypel 6030G HS BK is a 30% glass fiber reinforced, heat stabilized, black injection molding PA6 compound.

Applications

Nypel 6030G HS BK is generally recommended for applications such as bolts, racks, automotive underhood components, pressure regulator housings, caps and general industrial applications.

General Information			
UL YellowCard	E36632-231106		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Automotive Under the Hood		
	Bolts		
	Caps		
	Housings		
	Industrial Applications		
	Racks		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	1.1	%	
Saturation, 23°C	6.7	%	
Equilibrium, 23°C, 50% RH	1.9	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
-40°C	8740	MPa	
23°C	9580	MPa	
80°C	3820	MPa	
121°C	2730	MPa	
Tensile Stress			ISO 527-2
Break, -40°C	220	MPa	
Break, 23°C	155	MPa	

Break, 80°C	80.0	MPa	
Break, 121°C	65.0	MPa	
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	8070	MPa	ISO 178
Flexural Stress (23°C)	230	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.6	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	54	kJ/m ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	6.5	kJ/m ²	
23°C	8.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	219	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
CLTE			
Flow	2.5E-5	cm/cm/°C	
Transverse	6.7E-5	cm/cm/°C	
RTI Elec			UL 746
0.810 mm	130	°C	
1.50 mm	140	°C	
3.00 mm	140	°C	
RTI Imp			UL 746
0.810 mm	115	°C	
1.50 mm	115	°C	
3.00 mm	120	°C	
RTI Str			UL 746
0.810 mm	130	°C	
1.50 mm	140	°C	
3.00 mm	140	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.810 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	83.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	

Processing (Melt) Temp	270 to 295	°C
Mold Temperature	80.0 to 95.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

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