

Nypel® 6030G HS BK

Polyamide 6

Product Description

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.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.36	
Moisture, %	62		
(24 Hour)		1.1	
(50% RH)		1.9	
(Saturation)		6.7	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
-40C		8,740	-
23C		9,580	-
80C		3,815	-
121C		2,730	-
Tensile stress at break, MPa	527		
-40C		220	-
23C		155	-
80C		80	-
121C		65	-
Tensile strain at break, %	527		
23C		3	-
Flexural Strength, MPa	178		
23C		230	-
Flexural Modulus, MPa	178		
23C		8,070	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		8	-
-40C		6.5	-
Charpy Notched, kJ/m ²	179		
23C		8.6	-
Charpy Unnotched, kJ/m ²	179		
23C		54	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	205	-
HDT B, C	75	219	-



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Coef. of Linear Thermal Expansion, Parallel, mm/mm C	0.25 X10-4	-	
Coef. of Linear Thermal Expansion, Normal, mm/mm C	0.67 X10-4	-	
ELECTRICAL	ISO Test Method	Dry	Conditioned
Volume Resistivity	IEC 60093	>1E13	-
UL RATINGS	UL Test Method	Property Value	
Flammability Rating, 1.5mm	UL94	HB	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		140	
Mechanical w/ Impact, C		115	
Electrical, C		140	

