

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	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.36	
Mold Shrinkage (1/8" bar, in/in)		0.003	
Moisture, %	D-570		
(24 Hour)		1.1	
(50% RH)		1.9	
(Saturation)		6.7	
MECHANICAL	ASTM Test Method	Dry	Conditioned
Tensile Strength, Break, MPa (psi)	D-638		
-40C (-40F)		220 (31,900)	-
23C (73F)		155 (22,500)	-
80C (176F)		80 (11,600)	-
121C (250F)		65 (9,430)	-
Elongation, Break, %	D-638		
23C (73F)		3	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		8,480 (1,230,000)	-
Rockwell Hardness, R Scale	D-785	121	-
IMPACT	ASTM Test Method	Dry	Conditioned
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
23C (73F)		85 (1.6)	-
THERMAL	ASTM Test Method	Dry	Conditioned
Melting Point, C(F)	D-3418	220 (428)	-
Heat Deflection @ 264 psi (1.8 MPa) C(F)	D-648	205 (401)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	0.38 X10-4	-
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	
ELECTRICAL	ASTM Test Method	Dry	Conditioned
Volume Resistivity, 1.5 mm	D-257	>1E13	-

