

Aqua Technic Providing the specifications for our new high temperature nylon bushing.

M.A.Hanno Resin Distribution

DuPont Engineering Polymers

Zytel@ 70G13HS1L NC01 0 (Dry)

Polyamide (nylon 66)

Deformation Under Load, ASTM D621, 2000 psi, 122 °F: 1.1%.

Product Characteristics

Material Status	* Commercial; Active
Availability	* North America
Test Standards Available	* ASTM
Filler/Reinforcement	* Glass fiber reinforcement 13%
Additive	* Heat Stabilizer
Features	* General Purpose
	* Thermal Stability, Good
	* Heat Stabilized
Uses	* Automotive Applications
	* Industrial Applications
	* Parts, Engineering
	* Parts, Machine/Mechanical
Appearance	* Color Black
Processing Method	* Injection Molding

Properties	Nominal Values	Test
Specific Gravity	1.22 sp gr 23/23°C	ASTM D79r
Mold Shrink, LinearFlow	0.005 in/in	ASTM D955
Water Absorption @ Equil.	71 %	ASTM D570
Mechanical	Nominal Values (English)	Test
Tensile Strength (73 °F)	17500 psi	ASTM D63F
Tensile Elongation @ Brk (73 °F)	3,0%	ASTM D638
Flexural Modulus (73 °F)	700000 psi	ASTM D790
Flexural Strength (73 °F)	24000 psi	ASTM D790
Shear Strength	11000 psi	ASTM D732
Impact	Nominal Values	Test
Notched Izod Impact (73 °F)	0.9000 ftlb/in	ASTM D256
Hardness	Nominal Values	Test
Rockwell Hardness (MScale)	95.0	ASTM D785
(RScale)	122	ASTM D785
Thermal	Nominal Values	Test
DTUL Q 264psi Unannealed	470 °F	ASTM D64F
Melting Point	504 °F	
CLTE, Flow	1.5e005 in/in/°F	ASTM D695
Electrical	Nominal Values	Test
Arc Resistance	135 sec	ASTM D495

Ignition Characteristics	Nominal Values	Test
Flame Rating UL (0.0280 in, NC)	HB	UL94
UL 746	Nominal Values	Test
Comparative Track Index	600 V	UL 746
High Volt Arc Track Rate	1.27 in/min	UL 746
Hot Wire Ignition	9.0 sec	UL 746
High Ampere Arc Ignition	200	UL 746

Typical properties; not to be construed as specifications.

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