UNIPA® im

Polyamide 66

Nytef Plastics, Ltd.

Message:

Since its introduction in 1938, Nylon has become one of the world's most widely recognized and utilized engineering grade thermoplastics. Nylon's unique combination of high strength, good toughness, outstanding chemical resistance, and excellent wear and abrasion resistance have made it the material of choice for product designs in a multitude of industries. When used to replace wear grade metals like brass and bronze, no other material provides the combination of extended wear life, light weight, and low fabricated part cost of Nylon. Nytef Plastics, Ltd. manufactures UNIPA® Nylon stock shapes in a wide variety of types and stock shape configurations. These UNIPA Nylon products fall into the categories of Type 6/6 Extruded UNIPA Nylons and Type 6 UNIPA M Cast Nylons. While both types of Nylon are very similar, there are performance and availability differences between the two grades that should be noted:

UNIPA Type 6/6 Extruded Nylons:

offer improved toughness

offer improved flame resistance

are available in smaller rod diameters (< 2" dia.)

Nytef Plastic's UNIPA Nylon 6/6 extruded stock shapes are available in a wide range of grades—including both lubricated and fiber reinforced products. UNIPA Nylon 6/6 materials are offered in a complete range of extruded round, square, and hex rod, heavy gauge plate, and tubular bar sizes.

Base resin: Zytel® ST801

General Information	
Features	Flame Retardant
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Impact Resistance
	Good Wear Resistance
	High Stiffness
	High Strength
	Machinable
	Ultra High Toughness
Uses	Automotive Applications
	Bearings
	Bushings
	Construction Applications
	Electrical Parts
	Electrical/Electronic Applications
	Fluid Handling
	Food Service Applications
	Gears
	Mining Applications
	Molds/Dies/Tools
	Pulleys
	Pump Parts
	Rollers

Textile Applications

Valves/Valve Parts

Wear Strip

Wheels

Forms

Preformed Parts

Rod

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	1.2	%	
Saturation	6.7	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	51.7	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	1690	MPa	ASTM D790
Coefficient of Friction	0.29		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	910	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8	1		
MPa, Unannealed)	71.1	°C	ASTM D648
Continuous Use Temperature	98.9	°C	Internal Method
Peak Melting Temperature	262	°C	ASTM D3418
CLTE - Flow	1.2E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Constant			ASTM D150
1 MHz	2.90		
60 MHz	3.20		
60 MHz Dissipation Factor (60 Hz)	3.20 0.010		ASTM D150
		Unit	ASTM D150 Test Method

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

