UNIPA® Ld

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.

General Information				
Additive	Molybdenum Disulfide Lubricant			
Features	Flame Retardant			
	Good Abrasion Resistance			
	Good Chemical Resistance			
	Good Toughness			
	Good Wear Resistance			
	High Stiffness			
	High Strength			
	Lubricated			
	Machinable			
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

Appearance Dark Grey

Forms Preformed Parts

Rod

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.70	%	
Saturation	6.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	85		
R-Scale	115		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength	81.4	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Compressive Strength	110	MPa	ASTM D695
Coefficient of Friction	0.23		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	98.9	°C	ASTM D648
Continuous Use Temperature	98.9	°C	Internal Method
Peak Melting Temperature	257	°C	ASTM D3418
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength ¹	14	kV/mm	ASTM D149
Dielectric Constant (60 MHz)	3.70		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
NOTE			

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Recommended distributors for this material

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

