Petrorays PRODUCTS Co

126/128, Nagdevi street, 2nd Floor, Mumbai - 400 003. India
Phone: (022) 6634 9695 / 2340 3706 / 2346 3492 Fax: +91 (022) 2340 3706
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CAST NYLON (POLYAMIDE) RODS, SHEETS & COMPONENTS

CAST NYLON is generally superior to extruded Nylon-6. Since it is made by direct polymerisation of caprolactam, the polymer has never been melted and thus has been subjected to any thermal degradation. In addition, its molecular weight (upto 10,00,000) is several fold higher than molecular weight of extruded nylon6(30,000). Since physical properties of Thermoplastics improve with increasing molecular weight it has Higher tensile and compressive strength, Greater hardness and modulus of elasticity, Higher wear resistance, Lower distortion at Higher temperatures, Lower moisture, Better dimensional stability, Better resistance to solvents than Extruded Nylon 6. Thus for Bearings, Gears and Structural applications.



CAST NYLON is the result of a new technology in Plastics, which makes available to you any shape or size. No longer are you restricted to the smaller size made by extrusion or injection molding methods. Any type of heavy component is now within your reach. The casting process upgrades the Nylon 66 but with lower moisture absorption and improved strength, it enables production of stress-free stock shapes of almost unlimited size.

ADVANTAGES OF CASTNYLON COMPONENTS				
Excellent abrasion resistance	✓ Energy Savings			
✓ High Impact strength	Resistance to stress, cracking & UV rays			
✓ Low Co-efficient of friction	→ Has smooth & hard surface			
→ Water Repellant	✓ Excellent di-Electric Strength			
✓ Lighter than metal	✓ Easily Machinable			
→ Corrosion Resistance to most acids & chemicals	✓ Does not require bearings seals			

WIDE APPLICATIONS

Railways:	Pedestal Liner, Bush, pinion, wear pad
Paper mills:	Dryers Gears, Liner, Bush, Pulleys, Rollers
Sugar Mills:	Mill bush, liner, Wear plates, pulley, wear pads
Cement Plants:	Ropeway pulley, Uncoupling wheel, bush
Textile Ind.:	Bevel Gears, Bearings, Bushes
Tyre Ind,:	Guides, Bush, Gear, Bead Separator
Steel Plants:	Slipper pads, Bearings, Gear, Insert
Chemical Plants:	Wear pads, Scrapper
Automobiles:	Wear pads, Rings, Brush, Washers
Bottling Plants:	Star wheel, Guides, Sprockets
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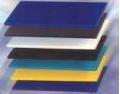














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PROPERTIES OF CAST NYLON							
PROPERTIES		TEST METHOD	UNIT	VALUES			
Specific Gravity		ASTM D792	g/cm ³	1.14 - 1.16			
Water absorption @20°C		ASTM D 570	%	0.3 to 3			
M E (CHANICAL	PROPERTIE	S				
PROPERTIES		TEST METHOD	UNIT	VALUES			
Tensile Strength at yield		ASTM D638	Kg/cm ²	750 - 850			
3 ,							
Compression strength at yield			Kg/cm ³	940			
Elongation at yield		ASTM D638	%	12 - 13			
Durometer (23°C)			D	D 82 - 89			
24.6(25-6)			† -	2 02 03			
E- Modulus		ASTM D638	Kg/cm ³	24000 to 26300			
Temperature of Deflection			°C	80			
Flavored Characth		ACTM D	1/a/am²	1000 1350			
Flexural Strength		ASTM D	Kg/cm ²	1000 - 1350			
Notched Impact Strength		ASTM D	Cm - Kg/cm ²	5 - 11			
Hardness Rockwell (23°C)				R 107 - 112			
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Resistance to heat (Continuous)	In Air			80°C			
	In water			100°C			
	In Oil			140°C			
Impact strength at (20°C)		_	Kg cm/cm	10			
impact strength at (20 C)		-	Kg Cili/Cili	10			
Melting Point		ASTM D569	°C	215			
Effect of weak acids				Resistant			
Effect of strong acids				Attacked			
Effect of weak alkalies				None			
				<u> </u>			
Effect strong alkalies				None			
Effect of Organic Solvents				Resistant to common solvents			