



Technical Data Sheet

Nylon 6.6 Sheet & Rod

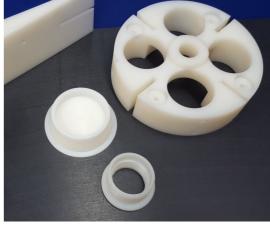
Natural/Black

Nylon 66E improved wear resistance, hardness and higher strength compared to 6E. In addition nylon 66 has a higher melting point and reduced water absorption rate, which results in higher precision on machined parts.

Furthermore, this grade is FDA approved. However, impact strength is reduced compared to 6e. With the addition of MOs2 additive, nylon 66 black (and grey) shows improved wear and abrasion resistance, lower coefficient of friction and reduced moisture absorption.

product information

Name:	Polyamide 66			
Other names:	Centromid 6.6, Ertalon 66 SA			
Abbreviation:	PA 66, Polyamide			
key characteristics				



- Higher mechanical strength, stiffness, heat and wear resistance than Nylon 6
- Machines and cuts better than Nylon 6
- Food compliant

applications

Gears

- Nuts
- Valve seats
- Bushes
- Electrical insulators
- Screws
- Bearings
- Gaskets



Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

Certificate Number: 14352



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Nylon 6.6 Sheet & Rod					
Physical Properties 1. Specific gravity 2. Water absorption 3. Maximum service temp. Upper temp limit (no atmospherical atmosphe	Test ISO 1183 ISO 62	Unit g/cm ³ °C	Result 1.14 8 95		
(no stronger mechanical stress involved) Lower temp limit Mechanical Properties	Test	°C Unit	-30 Result		
 Tensile stress at yield Elongation at yield Tensile strength at break Elongation at break Impact strength Notch impact strength Ball Indentation/Rockwell hardness Shore-D Flexural strength Modulus of elasticity 	ISO 527 ISO 527 ISO 527 ISO 527 ISO 179 ISO 2039-1 DIN 53505 ISO 178 ISO 527	Mpa % Mpa % kJ/m² kJ/m² Mpa - Mpa Mpa	90 - >40 no break 6 160/M85 - 2800 3100		
 Thermal Properties 1. Vicat-softening point VST/B/50 2. Heat deflection temperature HDT/B HDT/A 3. Coefficient of linear thermal expansion 4. Thermal conductivity at 20 °C 	Test Method ISO 306 ISO 75 - ISO 11359 DIN 52612	Unit °C °C °C K ⁻¹ x10 ⁻⁴ W/(m*K)	Result - 85 0.8 0.28		
Electrical Properties 1. Volume resistivity 2. Surface resistivity 3. Dielectric constant at 1MHz 4. Dielectric loss factor at 1 MHz 5. Dielectric strength 6. Comparative tracking index (CTI)	Test Method VDE 0303 - DIN 53483 VDE 0303 IEC 60112	Unit Ω x m Ω - kV/mm	Result 10 ¹² 3.3 0.026 27 600		
Additional Data 1. Bondability 2. Food compliance (Natural Only) 3. Flammability	Test Method - FDA UL94	Unit - -	Result + + V-2		

All The above information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers. Key

Yes	Limited	No or no data
+	0	-



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