

# Nylon 66 / Nylon 6/6 glass-filled (35%)

## Key Features

Flame retardancy • Stiffness • Heat resistance  
> 200°C

## Applications

End-use parts • Automotive • Electronics •  
Industrial equipment

## Product Description

Ultradid® A3X2G7 is a 35% glass fiber-reinforced PA66 (nylon 66) with flame retardancy based on red phosphorus, designed for injection molding of high-performance structural components. It delivers very high stiffness and tensile strength (160 MPa), excellent thermal resistance (HDT of 250 °C), and outstanding electrical insulating properties, even under high humidity. This grade offers enhanced long-term mechanical and electrical stability, making it ideal for safety-critical components in electrified systems. It is UL 94 V-0 rated down to 0.75 mm and meets demanding requirements for flame resistance, mechanical strength, and heat aging.

## Properties\*

\*Based on material Ultradid® A3X2G7

Tensile modulus	11,000 MPa
Tensile strength	160 MPa
Elongation at break	3%
Flexural modulus	9,200 MPa
Notched izod impact (23°C)	2 kJ/m2
Melting temperature (20°C/min)	260°C
Heat deflection temperature (0.45 MPa)	250°C
Heat deflection temperature (1.80 MPa)	250°C
Volume Resistivity (Ohm)	1E13
Density	1.45 g/cm <sup>3</sup>
Flame retardancy UL94 (0.75 mm, 1.5 mm, 3 mm)	V-0

## Reference

For more detailed source information, please consult the original document linked [here](#). We encourage users to verify the data's relevance and suitability for their specific needs.

