

Nylon PA11

Description

Nylon PA11 is a widely used printing material known for its low water absorption, excellent oil resistance, low-temperature tolerance, and ease of processing.

It offers high impact resistance and outstanding hydrocarbon tolerance. Besides, it is 100% biocompatible and has a reusability rate of up to 70%.



Features

[Print size]: 380x284x380 mm

[Features]: High impact resistance • Hydrocarbon resistant • Biocompatible

Colors: Black, white, transparent

Advantages: Lightweight, corrosion-resistant, high airtightness, low resistance, not prone to cracking, and fusible

Disadvantages: Relatively expensive

Recommended applications: Boxes and containers for consumer goods, gun stocks, grips, trigger guards, parachute covers, and applications in the apparel industry

Parameters

Measurement	HP 3D HR PA12 ¹⁸	HP 3D HR PA12 GB ¹⁹	HP 3D HR PA11 ²⁰	VESTOSINT® 3D Z2773 PA 12
Tensile Strength, Max Load ¹⁷ , XY	48 MPa/6960psi	30 MPa/4350 psi	50 MPa/7250 psi	48 MPa/6960 psi
Tensile Modulus ¹⁷ , XY	1700MPa/247 ksi	2800 MPa/406 ksi	1800 MPa/261 ksi	1700 MPa/247 ksi
Elongation at Break ¹⁷ , XY	20%	6.5%	50%	20%
Izod Impact Strength - Notched (3.2 mm, 23°C), XYZ	3.5 kJ/m²	2.7 kJ/m²	6 kJ/m²	-
Heat Deflection Temperature (@0.45 MPa, 66 psi)-Z	175 °C/347 °F	173 °C/344 °F	183 °C/361 °F	-
Heat Deflection Temperature (@1.82 MPa, 264 psi)-Z	106 °C/223 °F	121 °C/250 °F	50 °C/122 °F	-
Refresh ratio for stable performance	20%	30%	30%	50%
Application Example				