



PA11-SLS

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/4350psi | 50 MPa/7250psi | 48 MPa/6960psi |
| Tensile Modulus ¹⁷ , XY | 1700MPa/247ksi | 2800 MPa/406ksi | 1800 MPa/261ksi | 1700 MPa/247ksi |
| Elongation at Break ¹⁷ , XY | 20% | 6.5% | 50% | 20% |
| Izod Impact Strength - Notched (3.2 mm, 23°C), XYZ | 3.5 kJ/m ² | 2.7 kJ/m ² | 6 kJ/m ² | - |
| 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 |  |  |  |  |