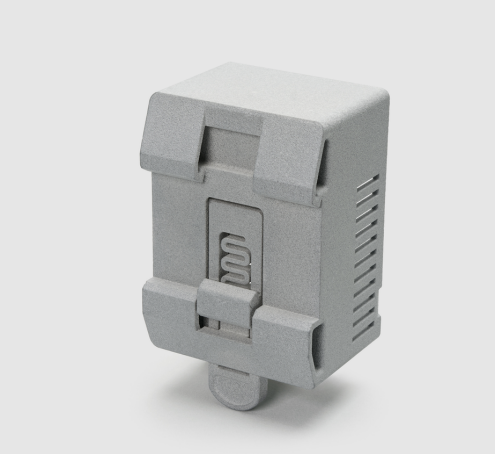
HP 3D HR PA 12 FR

NYLONS FOR HP MULTI JET FUSION 3D PRINTING



MATERIAL NAME
HP 3D HR PA 12 FR

COLOR
Grey

PROCESS
HP Multi Jet Fusion

PRODUCT DESCRIPTION

HR PA 12 FR is a flame-retardant PA12 material for HP Multi Jet Fusion. It combines the toughness, wear resistance, complex structure molding capabilities and flame retardant properties of nylon. It is suitable for electronic and electrical housings, complex inner cavities, small batch terminal parts and functional verification.

TYPICAL APPLICATIONS

- End-use plastic parts
- Assembly testing
- Functional prototype testing
- Electronic and electrical functional parts

PRODUCT SAFETY

Powders and printed parts should be handled in a dry, well-ventilated workspace. Avoid inhaling dust, and keep material away from moisture, open flames, and uncontrolled heat sources.

PRODUCT DELIVERY & WAREHOUSING

- **STORAGE**
  Store printed parts and powder in a cool, dry, sealed environment. Keep away from moisture, direct sunlight, and heat.

- **TRANSPORTATION**
  Ship in sealed, moisture-protected packaging with cushioning. Avoid compression, impact, and prolonged exposure to humidity or heat.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Density (g/cm3)	ISO 1183	1.13 g/cm3
Water Absorption (%)	ISO 62	0.2%
Tensile strength (MPa)	ISO 527	XY: 46 Z: 48 MPa
Tensile modulus (MPa)	ISO 527	XY: 2580 Z: 2540 MPa
Elongation at break	ISO 527	XY: 4.7 Z: 4.2%
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 172 deg C
Heat deflection temperature @ 1.8 MPa (deg C)	ISO 75	HDT @ 1.8 MPa: 165 deg C
Impact strength notched	ASTM D256	2.8 KJ/m²; ASTM D256 (Izod)

Tips: Want to explore a wider range of materials? Check out *https://www.unionfab.com/materials*