



SOLVAY

asking more from chemistry®

High-Performance Additive Manufacturing Solutions for Healthcare

**SPECIALTY
POLYMERS**

With over 25 years experience as a leading materials supplier to the Healthcare industry, Solvay provides the reliability, experience and innovation that medical device manufacturers expect from their partners.



Due to its design with high customization and on demand needs, the Healthcare industry is one of the key markets to benefit from Additive Manufacturing technology. While brand new 3D printers continue to be further developed, the choice of high-performance medical grade filaments has been very limited – until now.

We are proud to announce our new high-performance solutions that will enable 3D-printed applications to take on the challenges of the highly regulated Healthcare industry:

- **KetaSpire® PEEK AM Filament NT1 HC**
- **KetaSpire® PEEK AM Filament CF10 HC**
- **Radel® PPSU AM Filament NT1 HC**

Our new medical grade solutions

KetaSpire® PEEK AM Filament NT1 HC Polyetheretherketone

KetaSpire® PEEK AM Filament NT1 HC provides long-term performance up to 240 °C, with exceptional chemical resistance, outstanding wear and abrasion resistance, ideal for use in high-performance Healthcare applications. These properties make it particularly suitable for metal replacement.

Our filament, in combination with our recommended processing conditions, enables parts to be printed with low porosity, and exceptional inter-layer strength in all directions.

KetaSpire® PEEK AM Filament CF10 HC Polyetheretherketone

KetaSpire® AM Filament CF10 HC additionally incorporates 10% carbon fiber reinforcement into a PEEK matrix for increased strength.

Radel® PPSU AM Filament NT1 HC Polyphenylsulfone

Radel® PPSU AM Filament NT1 HC offers the best of all sulfone polymers. It is ideal for use in high-performance Healthcare applications that may need translucency, chemical resistance, high temperature capabilities, impact strength and toughness.

Our PPSU filament combined with our recommended processing conditions creates an excellent inter-layer fusion enabling incomparable levels of translucency for 3D printed parts.

Next-level Performance

Our high-performance medical grade filaments enable access to a new range of limited exposure applications (having less than 24 hours contact with bodily fluids and tissue) such as **surgical instruments and devices**.

For example:

- cutting guides
- personalized surgical instruments
- small complex components to be used in medical devices

Biocompatibility

As an established materials supplier to the healthcare industry, we understand the industry's global biocompatibility concerns and offer comprehensive regulatory support.

- ISO 10993 Limited contact testing with Master Access File support
- Global regulatory specialists to support medical device submissions and data requests



How to Order Online

For more than 150 years Solvay has distinguished itself for its innovating spirit. That is why Solvay today is a global leader in high-performance polymers positioned at the leading-edge of the industry.

Today, Solvay continues to take Additive Manufacturing to the next level with the introduction of AM-ready products specifically developed for Healthcare.

Order them directly from our new e-commerce platform at **www.solvayamshop.com**

This platform is designed to provide a better customer experience to the fast-growing number of AM technology users by giving you quick, direct access to Solvay's advanced AM material solutions, as well as transparent pricing.

Find out more at www.solvayam.com





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Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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