

## **iglidur I151 for safe, FDA-compliant and detectable consumable parts in food technology**

### **igus develops a blue tribo-filament for cost-effective production of special 3D printed parts for the food industry**

Responding to customer demand, iglidur I151 is a blue, easy-to-process material and has the best friction and wear values in its class. This new tribo-filament is a further development of the iglidur I150 all-rounder filament from igus. Due to its blue colour, parts can be produced that are highly visible in the food industry. Compliance with FDA (US Food & Drug Administration) and EU 10/2011 regulations means the material is safe to be in contact with food and further qualifies the high-performance plastic for use in the food and cosmetics sectors.

Since 2017, igus has successfully supplied its all-rounder material iglidur I150 as a high-quality 3D printing material. The filament is very easy to process on conventional 3D printers. Special parts can be produced quickly and cost-effectively using the FDM 3D printing process. "However, many customers, especially in the food industry, wanted a blue and FDA-compliant filament that has similar properties to iglidur I150. We have now developed iglidur I151," explains Dean Aylott, Product manager of 3D printing at igus UK.

The new tribo-filament is suitable for printing components with high wear-resistant properties. Because the material is enriched with solid lubricants it does not require additional lubrication, ruling out the possible risk of contamination. The printed components are compliant with FDA (US) regulations and EU Regulation 10/2011 and are therefore ideally suited for use in the food and cosmetics industries. The blue colour – which really stands out in a food production environment – ensures high detectability, if a part were to accidentally enter a food batch. iglidur I151 can be processed on any 3D printer where the nozzle temperature can be adjusted to 250°C.

**Food-compliant parts to print in-house or order online**

iglidur I151 has similar mechanical properties to iglidur I150 in terms of strength, toughness, and layer adhesion. iglidur I151 was also convincing in wear tests in the igus test laboratory compared to standard plastics such as ABS and nylon, and has a service life up to 100 times higher. The new filament can be ordered directly as rolling stock from the online shop.

Alternatively, users can order their wear-resistant iglidur material from the igus 3D printing service. Simply upload the STEP data, select the material, quantity and order the individual parts directly. The new tribo-filament for the food industry was launched on April 20th at the [Ultimaker](#) Transformation Summit and I151 will soon be available on the [Ultimaker](#) Marketplace. Here, users of Ultimaker 3D printers benefit in that all the material profiles are already included so that printing can begin immediately without any pre-sets.

**igus resources:**

-  LiveChat with our technical team at [igus.co.uk](https://igus.co.uk)
-  Follow us at [twitter.com/igusUK](https://twitter.com/igusUK)
-  Watch our videos at [igus.co.uk/YouTube](https://igus.co.uk/YouTube)
-  Connect to us at [igus.co.uk/Facebook](https://igus.co.uk/Facebook)
-  Read our blog at [blog.igus.co.uk](https://blog.igus.co.uk)

**About igus:**

Based in Northampton in the UK and with global headquarters in Cologne, Germany, igus is a leading international manufacturer of energy chain systems and polymer plain bearings. The family-run company is represented in 31 countries and employs over 4000 people around the world. In 2019, igus generated a turnover of 764 million euros with motion plastics, plastic components for moving applications.

With plastic bearing experience since 1964, cable carrier experience since 1971 and continuous-flex cable experience since 1989, igus provides the right solution based on 100,000 products available from stock, with between 1,500 and 2,500 new product introductions each year. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

**For further information, please contact:**

## Press release

Erin Kemal

Tel: 01604 677240

Email: [ekemal@igus.co.uk](mailto:ekemal@igus.co.uk)

Hannah Durrant

Tel: 01604 677240

Email: [hdurrant@igus.co.uk](mailto:hdurrant@igus.co.uk)

The terms "igus", "Apro", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain systems", "e-ketten", "e-kettensysteme", "e-skin", "e-spool", "flizz", "ibow", "igear", "iglidur", "igubal", "kineKIT", "manus", "motion plastics", "pikchain", "plastics for longer life", "readychain", "readycable", "ReBeL", "speedigus", "triflex", "robotink", "xirodur", and "xiros" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.



### Picture PM1821-1

The new blue iglidur I150 tribo-filament is compliant with US FDA standards and is therefore specifically suitable for contact with food.