

Temperature stable printing with the new igus tribo-filament

Wear-resistant and maintenance-free special parts for extreme conditions are quickly manufactured with iglidur J350

In order to quickly replace worn parts for high-temperature applications, igus has now developed a filament made from the wear-resistant lubrication-free and maintenance-free iglidur J350 material. The high-performance polymer is characterised not only by its heat resistance but also by its very low coefficients of friction on steel. The filament can be processed within a very short time with a high-temperature 3D printer.

High temperatures take a heavy toll on wearing parts in plants and equipment. If important bearing points fail, this leads to a shutdown. The consequence is a complex repair and long downtime with spiralling costs. To enable designers and maintenance engineers to quickly print their wear-resistant parts themselves for own use, igus has now developed a new maintenance-free filament with iglidur J350.

Medium to high loads in up to 180 degrees Celsius

The lubrication-free tribo-material is already offered by the motion plastics specialist in the plain bearing and bar stock range. The material is characterised above all by its extremely high wear resistance and its very low coefficients of friction on steel. The endurance runner is particularly suitable for rotation and has a high dimensional stability at high temperatures up to 180 degrees Celsius. Medium to high loads are no problem for the iglidur J350. Another benefit is that the material fulfils the fire prevention requirements of the Federal Aviation Administration of the USA (FAA) for aircraft interiors. Using a high-temperature 3D printer, the filament can be processed well on a printing plate equipped with a PET film. Typical application areas of the new filament can be found, for example, in the field of vending machine technology, in the automotive sector, in the glass industry and in mechanical engineering. In addition to iglidur J350, six more filaments are available from igus: from materials approved for food contact up to chemical-grade materials.

Caption:



Picture PM5318-1

Lubrication-free and maintenance-free, the iglidur J350 tribo-filament extends the service life of moving applications at temperatures up to 180 degrees Celsius. (Source: igus GmbH)

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ABOUT IGUS:

igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs 3.800 people around the world. In 2017, igus generated a turnover of 690 million euros with motion plastics, plastic components for moving applications. 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.

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