

PRESS RELEASE

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THERMEC™ K: DOMO Chemicals launches PEEK solution to replace PAI

- THERMEC™ K can replace polyamide-imides (PAI), without impacting performance
- It is suitable for numerous industrial applications, including bushings & bearings
- The solution was developed in India, a huge market for friction and wear resistant material

Leuna, September 1, 2020 - DOMO Chemicals has expanded its THERMEC™ range of enhanced polymers, with the introduction of a cost-efficient product based on polyether ether ketone (PEEK), blended with a solid polymeric lubricant. The new solution, which is now available in India, has been specially developed to replace polyamide-imides (PAI), without impacting performance.

THERMEC™ K is an innovative experimental product that has been developed at DOMO's Mumbai-based laboratory in India, a huge market for friction and wear resistant materials. The solution is suitable for numerous industrial applications, including bushings & bearings, aerospace parts, pump & valve components, medical instrument parts and food processing machinery components.

"Generally speaking, the mechanical properties of PAI are higher than those of PEEK-based parts, due to the different types of polymers the material contains. But it is more expensive too," explains Tushar Parida, Country manager India at DOMO. "However, through the careful formulation work of our Indian development team, we have been able to match the friction & wear performance and dry lubrication properties of PAI in a PEEK-based solution."

DOMO's Mumbai team has shown that THERMEC™ K is suitable for numerous applications, especially when low wear, low coefficient of friction at temperatures of up to 200C° and resistance to high load-bearing conditions, is required. Furthermore, it grants a lower density of 1.32g/cm³, compared to a PAI solution of 1.42g/cm³.

In addition to offering comparable tribological properties to PAI, THERMEC™ K can be processed using a standard injection moulding procedure. This means that the use of complex cold injection moulding equipment followed by a lengthy steam curing process is unnecessary. THERMEC™ K offers a wide range of material property benefits that ranges from exceptional properties at elevated temperatures, chemical resistance, mechanical strength, strong wear and fatigue resistance, and dielectric strength.

DOMO plays a growing role in the higher performance polymers market. The extensive THERMEC™ product range has been developed to meet the demands of specific application requirements. The enhanced polymers solution range features new solutions based on polyphthalamide (PPA): THERMEC™ N; polyphenylene sulfide (PPS): THERMEC™ S; and polyether ether ketone (PEEK): THERMEC™ K).

[Read more on our complete THERMEC™ product range!](#)

About DOMO Chemicals

DOMO Chemicals is a leading producer of high-quality engineering nylon materials for a diverse range of markets, including the automotive, food, medical, pharmaceutical, chemicals and electronics industries. The company offers a complete portfolio of integrated nylon 6 and 66 products, including intermediates, resins, engineering plastics, performance fibres, packaging film and distribution of petrochemical products. Headquartered in Germany, the family-owned company leverages advanced technology and consumer insights to deliver sustainable & innovative solutions. DOMO generated 2019 sales over EUR 900 million and employs in 2020 approximately 2200 employees worldwide.

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THERMEC™ K: DOMO Chemicals launches PEEK solution to replace PAI. (Photo: iStock)

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