TECHNICAL DATA SHEET

KEPSTAN® 7003

Bio-based polymer with exceptional mechanical, thermal, and chemical properties. Offers outstanding crystalline capabilities and reduced processing temperatures.

DESCRIPTION

KEPSTAN® is a high performance thermoplastic material, based on PolyEtherKetoneKetone (PEKK) highly stable chemical backbone. Its semi crystalline structure in solid state offers an outstanding combination of mechanical and thermal strength together with chemical and fire resistance.

Among the KEPSTAN® family, the 7000 Series benefits uniquely from PEKK crystalline capabilities while reducing significantly processing temperatures compared to the more crystalline 8000 Series. With a lower melting temperature and a Tg still above 160°C, the KEPSTAN® 7000 Series resins are very valued in all processes where a delayed or slower crystallization is key to ease thermoforming, to improve interlayer adhesion and to reduce internal stresses. They are for instance highly enabling in the field of continuous fiber composites for structural applications, and in filament additive manufacturing technologies with or without continuous fibers.

PRODUCT PERFORMANCE

KEPSTAN® 7000 Series includes a very low flow grade, KEPSTAN® 7001, a medium flow grade, KEPSTAN® 7002, and a high flow grade, KEPSTAN® 7003, all unfilled PEKK resins designed to meet the requirements of a broad range of melt processing technologies, including among others extrusion, thermoforming, injection molding, fiber impregnation, composite consolidation and forming technologies, filament additive manufacturing.

SUGGESTED APPLICATIONS

KEPSTAN® is available in pellet form as well as in flake and in powder form with different particle sizes.

Standard packaging includes 20 kg boxes for pellets, 40kg drums for flakes and 10 kg boxes for powders.

SHELF LIFE

Store in the original, closed container in a dry, cool (<45°C) and well-ventilated place. Keep away from frost and heat (open flames, hot surfaces and sources of ignition) sources. Typical shelf-life is months from delivery date for unopened containers. In cases where product sampling is required to carry out incoming quality tests, shelf-life should be maintained beyond opening, provided that it is tightly closed immediately after and that contamination with foreign bodies is avoided.
Inhibitors have been added to enhance storage stability. They require the presence of air in the container in order to improve their efficiency. Keep stabilizer levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers

STORAGE

See SDS for Storage Considerations

HEALTH AND SAFETY

See SDS for Health & Safety Considerations

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