TECHNICAL DATA SHEET

KEPSTAN® 6003

KEPSTAN 6003 is a high flow grade, featuring 6000 Series typical low melting point and very slow crystallization kinetics.

DESCRIPTION

KEPSTAN® is a high-performance thermoplastic material, based on PolyEtherKetoneKetone (PEKK) highly stable chemical backbone. KEPSTAN® is a unique member of the PAEK family, with distinctive structural features allowing for unrivalled possibilities in the control of crystallinity. These features include a high Ketone content and a co-polymer structure, incorporating Terephtalic and Isophtalic moieties.

The 6000 Series corresponds to the pseudo-amorphous products of the KEPSTAN® family, offering the lowest melting point and the slowest crystallization behavior, while keeping Tg close to 160°C. These properties allow for lower processing temperatures (as low as 320-330°C), and lead to amorphous or semi crystalline structures, depending on processing technologies and cooling conditions. The properties reported in the data sheet correspond to the amorphous state of the PEKK polymer.

PRODUCT PERFORMANCE

SUGGESTED APPLICATIONS

KEPSTAN® 6003 is a high flow grade of pure unfilled PEKK resin designed to be suitable for processing technologies requiring fluidity, including among others cast film extrusion, injection molding, fiber impregnation, powder coating, bonding, welding and additive manufacturing.

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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