

Technical Data Sheet (TDS)

Product Name: [Polyether DL-4000K](#)

Product Introduction

DL-4000K is a polyether product using propylene glycol as starter and potassium hydroxide as catalyst, with molecular weight of about 4000. This product has no residual catalyst after refining. DL-4000K can be used for the preparation of UV optical fiber cable coating materials, UV-curable waterborne coating materials; preparation of polyurethane waterproofing, paving, adhesives and elastomer products; for the synthesis of polyurethane-type leather finishing agents, its polymer products have good strength, wear resistance, solvent resistance and other properties; it has wide applications in rubber, coatings, adhesives, and synthetic fibers; especially as a UV light-curing material for UV optical fiber cable applications.

Specifications

Item	DL-4000K	Test Standard
Appearance	Clear liquid, no suspension	Q/ZHDDZB 05.10.001-2024
Viscosity (25°C), mPa·s	750 ~ 950	Q/ZHDDZB 05.10.001-2024
Water Content, %	≤0.050	Q/ZHDDZB 05.10.001-2024
pH Value	5.5 ~ 7.5	Q/ZHDDZB 05.10.001-2024
Acid Value, mgKOH/g	≤0.05	Q/ZHDDZB 05.10.001-2024
Hydroxyl Value, mgKOH/g	26.0 ~ 30.0	Q/ZHDDZB 05.10.001-2024
Potassium Ion, mg/kg	≤5	Q/ZHDDZB 05.10.001-2024
Color (APHA)	≤50	Q/ZHDDZB 05.10.001-2024

Packaging

The product is packaged in clean, dry, sealed, leak-proof special painted iron drums with a net weight of 200 kg per drum; or in tank trucks, flexitanks, IBCs. It can also be packaged according to customer requirements. Containers must be tightly closed.

Storage & Transportation

During transportation, protect the product from rain and contamination. Handle with care, avoid collision with hard objects to prevent leakage.

During storage, the product should be stored at room temperature in a ventilated, dry warehouse, avoiding damp environments. The storage temperature should be kept below 50°C. Avoid direct sunlight and keep away from water sources and heat sources. Alternatively, store sealed in containers made of steel, aluminum, polyethylene, or polypropylene. To prevent moisture absorption and oxidation, it is recommended to purge the container with nitrogen. Storage temperatures above 60°C will cause product quality degradation. Short-term heating or cooling has little effect on product quality, but note that viscosity increases significantly at lower temperatures, which may cause difficulties in production processing.

Shelf Life

Under correct storage conditions, the shelf life is one year from the date of production. The product can still be used after this period if re-inspection confirms it meets specifications.

Note: For low odor products, customers are advised to use them as soon as possible.

Safety Information

DL-4000K is classified as a non-hazardous substance. It has a high flash point and is combustible. Use foam, dry powder, steam, or water for firefighting. It is not explosive. It is practically non-toxic, and no special ventilation requirements are

negligible. In case of skin contamination, wash with soapy water. In case of eye contact, flush with low-pressure clean water or seek medical treatment. Workers can wear eye shields or safety glasses for eye protection. Eye wash and shower facilities should be available near the workplace. The product is generally considered non-hazardous to skin. When working in areas where contact with the product is possible, pay attention to personal hygiene. Wash skin that has been in contact with the product using cleaning products before eating, smoking, or leaving the work area.

Spill Handling

Stop the leak if it is safe to do so. For minor spills, use sand or other absorbent material to collect the spillage and place it in a clean, dry container for subsequent disposal. For large spills, contain the spilled material for subsequent disposal. Prevent material from entering groundwater or surface water, as it is not readily biodegradable. All collected spillage should be disposed of according to local environmental regulations.

Disclaimer

The information and technical advice provided above are obtained from reliable sources. However, we make no warranty or guarantee, expressed or implied, regarding the data provided and assume no liability herein. We recommend testing our products for your specific use. We are not responsible for products applied, used, processed, or produced based on the technical information we provide, as these are beyond our control, and the responsibility lies with the user. The conditions and methods of handling, storage, use, or disposal of this product are beyond our control and may be beyond our knowledge. We shall not be held liable for any loss, damage, or expenses incurred due to improper handling, storage, use, or disposal of this chemical under any circumstances.

For more information, please refer to our Product Safety Data Sheet (SDS) or contact our Market Service Department.

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