

Technical Datasheet



AROPOL™ K 530 TE

AROPOL K 530 TE is a thixotropic, preaccelerated, isophthalic based special purpose resin with good mechanical properties combined with high heat and chemical resistance.

Typical liquid resin properties

| Property at 23 °C | Value | Unit | Method |
|-----------------------------------|-------|--------|----------|
| Viscosity, Brookfield RV2, 10 rpm | 1200 | mPas | ISO 2555 |
| Viscosity, cone&plate | 320 | mPas | ISO 2884 |
| Styrene content | 44 | % | SFS 4864 |
| Density | 1,1 | kg/dm3 | ISO 2811 |
| Geltime, 2% MEKP-50 | 12 | min | D006 |
| Peak exotherm, 2% MEKP-50 | 185 | °C | D006 |

Typical cured resin properties

| Property | Value | Unit | Method |
|--|-------|-----------|------------|
| Tensile strength | 65 | MPa | ISO 527 |
| Tensile modulus | 4100 | MPa | ISO 527 |
| Elongation at break | 2,5 | % | ISO 527 |
| Flexural strength | 125 | MPa | ISO 178 |
| Flexural modulus | 3 700 | MPa | ISO 178 |
| Heat deflection temperature (1,81 MPa) | 93 | °C | ISO 75/A |
| Water absorption, 24 hours | 18 | mg/sample | ISO 62-80 |
| Water absorption, 28 days | 80 | mg/sample | ISO 62-80 |
| Hardness | 45 | Barcol | ASTM D2583 |
| * 50x50x4 mm | | | |

Application and use

AROPOL K 530 TE resin is recommended for manufacture of GRP equipment, exposed to a corrosive environment, e.g. tanks, silos and pipes.

Remark: A separate chemical resistance list indicates the maximum working temperatures for



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AROPOL K 530 TE resin, exposed to a wide range of chemicals.

Certificates and approvals

AROPOL K 530 TE resin is approved by Lloyd's Register, Germanischer Lloyd's and Det Norske Veritas for construction of small crafts. In many countries AROPOL K 530 TE fulfills the requirements specified for raw material to be used in products intended for use in contact with food.

The manufacturing, quality control and distribution of products, by Ashland Performance Materials, are complying with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001.

Handling and storage

It is highly recommended that all material is stored at stable temperatures under 20°C preferably indoors, and away from direct sunlight. Prolonged storage or storage outside of recommended conditions can influence liquid resin properties like viscosity and gel time. It is also strongly recommended to mix resin thoroughly before use. Shelf life of AROPOL K 530 TE resin is six (6) months.

Notice

All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which Ashland assumes legal responsibility. Any warranties, including warranties of merchantability, fitness for use or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.

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Ashland requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.



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