Technical Data Sheet



Farapol Jam Chemical Indus. Co.

FARAPOL V 304

Mold

Horizontal

Vertical

| Product Descriptio | n Farapol V 304 Brominated I retardance and provide excep resistance to solvents and cho Since flame resistance witho properties and toughness will | tional mechanical pro emicals, good retentio out increasing additiv | perties at higher ten n of strength and to es is one of the pr | mperatures. This resin off oughness at elevated tem | fers a high peratures. |
|--------------------------------|---|---|--|--|---------------------------|
| Applications and Use | Farapol V 304 resin is the pr widely used with filament wi | | | | |
| Certificates and Approvals | Farapol Jam Chemical Indus of this resin in compliance w | | | | |
| Typical Liquid | Property @ 25 °C | Unit | Specification | Method | |
| Resin Properties | Viscosity Brookfield ¹ | cps | 400 - 500 | ISO 2555 | |
| Resili i roperties | Acid Value | mgKOH/g | Max 5 | ASTM D 1639 | |
| | Solid Content | % | 61 - 64 | ISO 3251 | |
| | Color | Gardner | Max 3 | ASTM D 1544 | |
| | Specific Gravity | relative | 1.17 | ISO 2811 | |
| | Gel Time ¹ | minute | 20 - 25 | ASTM D 2471 | |
| | Exothermic Peak Temperature | e °C | 140-170 | ASTM D 2471 | |
| | 1) Gel Time and Viscosity can | be adjusted as per custo | omer requirements. | | |
| Gel Time | Temperature (°C) | 18 | 25 | 30 | |
| Behavior of Resin ² | Gel Time (minute) | 28-32 | 20-25 | 13-16 | |
| | 2) Gel time measuring formulation | n used: 1.0 phr Cobalt (1.04 | %), 0.7 phr DMA (10% |) - Catalyst: 1.3 phr Akperox (/ | 460) |
| Flame Test Result | Test Method | Result- Clas | \$ | Standard | |
| o <mark>n Clear Ca</mark> st | Limited Oxygen Index (LOI) | 24.5 | | ASTM D 2863 | |

Class-0

V-0



UL 94/ ASTM D 635

UL 94/ ASTM D 5048

| | Property | Unit | Specification | Method |
|--|--|--|---|---|
| Resin Properties ³ | Tensile Strength | MPa | Min 70 | ISO 3268, ASTM D638, ISO 527-2&4 |
| | Elongation at Break | % | Min 3.0 | ISO 3268, ASTM D638, ISO 527-2&4 |
| | Tensile Modulus | GPa | Min 3.0 | ISO 3268, ASTM D638, ISO 527-2&4 |
| | Flexural Strength | MPa | Min 110 | ISO 178/ASTM D 790 |
| | Flexural Modulus | GPa | Min 3.0 | ISO 178/ASTM D 790 |
| | Glass Transition Temperature (tg) | ⁰ C | Min 110 | ASTM E 1640 |
| | Heat Distortion Temperature | ⁰ C | Min 100 | ISO 75 |
| | Barcol Hardness | Barcol | Min 40 | ASTM D 2583 |
| | Water Absorption | % | Max 0.20 | ISO 62- Test Method 3 |
| | Linear Shrinkage ⁴ | % | Max 1.3 | Internal method |
| 5 | FARAPOL V 304 is a product sensiti indoors in a dry place at a temperature undamaged containers. Avoid keepir mentioned above, the shelf life for FA | e between 5 ng material | 5 and 25°C. Keep al exposed to sunlight | ways in the original, unopened, |
| Handling, Storage and Stability Healthy and Safety | indoors in a dry place at a temperatur undamaged containers. Avoid keepir | e between 5 ng material ARAPOL V etallic Drien The user is | 5 and 25°C. Keep al exposed to sunligh 304 is 3 months. rs and Peroxides in | nt. On storage under the condition the same area. Safety Datasheets |
| and Stability | indoors in a dry place at a temperature undamaged containers. Avoid keepir mentioned above, the shelf life for FA Avoid storing the resin along with Me the product are available on demand. | e between 5 ng material ARAPOL V etallic Drien The user is luct. | 5 and 25°C. Keep al exposed to sunligh 304 is 3 months. rs and Peroxides in s responsible to fam | ways in the original, unopened, a nt. On storage under the conditi the same area. Safety Datasheets |
| and Stability Healthy and Safety | indoors in a dry place at a temperature undamaged containers. Avoid keepin mentioned above, the shelf life for FA Avoid storing the resin along with Me the product are available on demand. safety datasheet before using the prod | e between 5 ng material ARAPOL V etallic Drien The user is luct. steel barrels provided in g uracy or con ntended use | 5 and 25°C. Keep al exposed to sunligh 304 is 3 months. rs and Peroxides in s responsible to fam and IBC tanks. good faith and is to npleteness. Therefo | the best of our knowledge accur re, the buyer is advised to determ |
| and Stability Healthy and Safety Packaging | indoors in a dry place at a temperature undamaged containers. Avoid keepin mentioned above, the shelf life for FA Avoid storing the resin along with Me the product are available on demand. safety datasheet before using the prod Farapol V 304 is supplied in 200 Kg s The information contained herein is p but we assume no liability for its accut the suitability of this product for the i technological progress or further development. | e between 5 ng material ARAPOL V etallic Drien The user is luct. steel barrels provided in g uracy or con ntended use | 5 and 25°C. Keep al exposed to sunligh 304 is 3 months. rs and Peroxides in s responsible to fam and IBC tanks. good faith and is to npleteness. Therefo | ways in the original, unopened, a nt. On storage under the conditi the same area. Safety Datasheets niliar with the material handling a the best of our knowledge accur re, the buyer is advised to determ nt to make any changes according |