

# 香港新安國際貿易有限公司

**HONG KONG XINAN INTERNATIONAL LIMITED**

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## Silicone rubber **HKX T-271**

### Features

Silicone rubber for high voltage insulators.

### Application

Suitable for molding, injection and extrusion. It is recommended for manufacture high voltage insulators and cable accessories.

Typical product data

| Property                                                                                                                                                                      | Test method  | Value              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|
| Appearance                                                                                                                                                                    |              | Milky white        |
| Specific gravity at 20 °C, g/cm <sup>3</sup>                                                                                                                                  | ISO 1183-1 A | 1,55 ±0,03         |
| <b>Curing agent: 50 % paste of 2,5-bis-(t-butylperoxy)-2,5-dimethyl hexane in silicone rubber (Cure conditions - 10 min. / 170 °C, post-cure – min 2 h / 200 °C), 1,0 phr</b> |              |                    |
| Hardness Shore A                                                                                                                                                              | DIN 53505    | 70 ±5              |
| Elongation at break, %, min                                                                                                                                                   | DIN 53504 S1 | 150                |
| Tensile strength, MPa, min                                                                                                                                                    | DIN 53504 S1 | 3,5                |
| Volume resistivity, Ω·cm, min                                                                                                                                                 | IEC 60093    | 1·10 <sup>14</sup> |
| Dielectric strength, kV/mm, min                                                                                                                                               | IEC 60243    | 17                 |
| Dielectric constant (50 Hz)                                                                                                                                                   | IEC 60250    | 3 – 4              |
| Dielectric loss tangent (tan δ), max                                                                                                                                          | IEC 60250    | 0,07               |
| Flamme grade (Class) (3 mm)                                                                                                                                                   | UL 94        | FV-0               |
| Tracking resistance (class)                                                                                                                                                   | IEC 60587    | 1A4,5              |

These values are intended as a guide and should not be used in preparing specifications.

### Storage

Silicone rubber should be stored in the original unopened boxes at dry conditions at room temperature (max. 30 deg. C). The shelf life is 12 months from date of manufacture on the product label or on the associated Certificate of Analysis. At the end of the shelf life period, the product can be used after re-checking the properties.

**Safety information** The product is stable and not dangerous under normal conditions. Detailed safety information is contained in material safety data sheet.