

CHR[®] PEN SERIES

Polyethylene-naphthalate Pressure Sensitive Adhesive Tape

CHR K.30 and K.50 are manufactured by **Saint-Gobain[®]** Performance Plastics Corporation, Tape Solutions business, and comes with high performance Teonex[®] (Polyethylene-naphthalate) film with silicone pressure sensitive adhesive.

Features/Benefits

Intended for high temperature electrical insulation applications where a thin, conformable backing combined with excellent dielectric properties are required. Greater resistance to oil and chemicals compared to both polyester and polyimide films. Good adhesion on difficult substrates. **CHR** K.30 and K.50 are Class 180°C (Class H) and meet the Underwriters Laboratories, Inc. Guide File OANZ2.E178430. **CHR** K.30 and K.50 are recognized by UL Electrical Insulating Systems.

Availability

CHR K.30 and K.50 are available as master rolls 1000 mm × 66 m (39 in × 72 yd).

Rolls can be slit down to widths of 6.35 mm (0.25 in).

Applications

- Insulation of bobbins, transformers, motors, capacitors
- Automotive (ignition coil insulation)
- Cable and copper wire manufacturers



CHR K.30, K.50 Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

| Product Number | K.30 | K.50 |
|--|-----------|-----------|
| Backing Material | Teonex | Teonex |
| Adhesive Type | Silicone | Silicone |
| Backing Thickness mil (μm) | 1.0 (25) | 2.0 (50) |
| Adhesive Thickness mil (μm) | 1.4 (35) | 1.4 (35) |
| Overall Thickness mil (μm) | 2.4 (60) | 3.3 (85) |
| Adhesion Strength* oz/in (N/cm) | 27 (3) | 23 (2.5) |
| Tensile Strength lbs/in (N/cm) | 23 (40) | 51 (90) |
| Elongation (% at break) | 50 | 60 |
| Dielectric kv | 6 | 8 |
| UL File | E178430 | E178430 |
| Insulation Class °C | 180 | 180 |
| Short Time °C | 240 | 240 |
| Log Width inches (mm) | 39 (1000) | 39 (1000) |
| Color** | Blue | Red |

*Peel adhesion at 180 degrees on steel.

**Additional colors available upon request.

Shelf Life

12 months from date of sale when stored in original packaging at 21°C (70°F) and 50% relative humidity.

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