



TECHNICAL DATA SHEET

ATW

Base material

Polyolefin

Color

Black

Typical Properties

| Physical | Value | Standard | Test Method |
|---------------------|---------------------------|----------|----------------|
| Shrink ratio | 3:1 | | |
| Tensile strength | 17 N/mm ² min. | - | IEC 60684-2-19 |
| Elongation at break | 400 % min. | - | IEC 60684-2-19 |
| Longitudinal change | +0/ -10 % | - | IEC 60684-2-9 |
| Concentricity | 60 % min. | - | IEC 60684-2-3 |
| Secant Modulus | 70 N/mm ² min. | - | IEC 60684-2-37 |
| Relative Density | 1.05 g/cm ³ | - | IEC 60684-2-4 |

| Thermal | Value | Standard | Test Method |
|----------------------------------|-----------------------------|----------|----------------|
| Continuous Operating Temperature | -55°C to +130°C | - | IEC 60684-2-37 |
| Shrink Temperature | 120°C min. | | |
| Heat Shock | | - | IEC 60684-2-6 |
| Tensile strength | 12.5 N/mm ² min. | - | IEC 60684-2-19 |
| Elongation at break | 300 % min. | - | IEC 60684-2-19 |
| Heat Aging | | - | IEC 60684-2-39 |
| Elongation at break | % min. | - | IEC 60684-2-19 |
| Low Temperature Flexibility | No cracking after bending | - | IEC 60684-2-14 |
| Copper Corrosion | No corrosion | - | IEC 60684-2-33 |
| Flammability | Self extinguishing | - | IEC 60684-2-26 |

| Electrical | Value | Standard | Test Method |
|---------------------|---------------------------|----------|----------------|
| Dielectric Strength | 250 kV/cm | - | IEC 60684-2-21 |
| Volume resistivity | 1*10 ¹⁵ Ohm/cm | - | IEC 60684-2-23 |

| Chemical | Value | Standard | Test Method |
|---------------------|-------|----------|----------------|
| Chemical Resistance | Good | - | IEC 60684-2-36 |

Technical Information provided consists of typical product data and should not be used for specification purposes. Unless otherwise specified in the test method, all tests are performed at room temperature.

Documentation

Important note to the purchaser.

All statements, technical information and recommendations contained herein are based on tests 3M believes to be reliable, but their accuracy and completeness are not guaranteed.

The user shall be responsible for determining the suitability of the products for his particular application.

To discuss your application requirements please contact your representative

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Product Guide - Table 1

| Part Number | Expanded ID (min.) | | Recovered ID (max.) | | Total Recovered Wall Thickness (nominal) | | Recovered Adhesive Wall Thickness (nominal) | |
|-------------|--------------------|--|---------------------|--|--|--|---|--|
| | mm. | | mm. | | mm. | | mm. | |
| 2.4 | 2.4 | | 0.8 | | 0.4 | | | |
| 3.2 | 3.2 | | 1.2 | | 0.5 | | | |
| 4.8 | 4.8 | | 1.6 | | 0.5 | | | |
| 6.6 | 6.6 | | 2.4 | | 0.5 | | | |
| 9.5 | 9.5 | | 3.2 | | 0.6 | | | |
| 12.7 | 12.7 | | 4.8 | | 0.6 | | | |
| 19.0 | 19.0 | | 6.4 | | 0.7 | | | |
| 25.4 | 25.4 | | 9.5 | | 0.8 | | | |
| 38.0 | 38.0 | | 12.7 | | 0.9 | | | |

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