

Product Information
Automotive and
Transportation



DOW CORNING

Multiflex[®] TEO 2503 S BLK
Thermoplastic Elastomer

FEATURES & BENEFITS

- Black

APPLICATIONS

- Multiflex[®] TEO 2503 S BLK is designed for injected molded, paintable airbag covers and inflatable-restraint components

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

| Test* | Property | Unit | Result |
|------------------|------------------------------------|------------------------|--------|
| ISO 868 | Hardness | Sh.D | 38 |
| ISO 1183/A | Density | g/cm ³ | 0.88 |
| ISO 1133 | MVR (2.16 kg / 230°C) | cm ³ /10 mn | 5 |
| MDA 179 | Spiral flow condition A | cm | 33 |
| ISO 178 | Flexural modulus 3 points | MPa | 300 |
| ISO 180 | Notched izod impact at -45°C | KJ/m ² | 40 |
| ISO 527-2/5A/500 | Tensile strength at break | MPa | 13 |
| ISO 527-2/5A/500 | Elongation at break | % | 250 |
| ISO 34 | Tear strength | kN/m | 82 |
| ISO 527-2/5A/500 | Tensile strength at break at -35°C | MPa | 24 |
| ISO 527-2/5A/500 | Elongation at break at -35°C | % | 65 |
| ISO 34 | Tear strength at -35°C | kN/m | 166 |
| ISO 178 | Flexural modulus 3 points at 85°C | MPa | 83 |
| ISO 527-2/5A/500 | Tensile strength at break at 85°C | MPa | 4 |
| ISO 527-2/5A/500 | Elongation at break at 85°C | % | 380 |
| ISO 34 | Tear strength at 85°C | kN/m | 46 |
| ISO 294.4 | Shrinkage flow direction at 23°C | % | 1.2 |

*ISO: International Standardization Organization
MDA (Méthode d'Analyse): Issued from ISO Standards

GUIDELINES FOR INJECTION MOLDING

Drying: Multiflex[®] TEO 2503 S BLK is not moisture sensitive, therefore drying is not needed. However, if this material is stored in high humidity conditions, it is recommended to dry for two hours at maximum 80°C.

| | | |
|-----------------------|--|---------------|
| Barrel temperature °C | Feed Zone | 210°C +/-20°C |
| | Zone 1 | 220°C +/-20°C |
| | Zone 2 | 220°C +/-20°C |
| | Nozzle | 235°C +/-20°C |
| Back Pressure Bars | 10 +/- 5 | |
| Injection Speed | medium | |
| Holding Pressure | as low as possible | |
| Mold Temperature °C | 30–40°C (fixed part) - 20°C (moving part) ¹ | |

¹Lower T° on moving part is better for easier injection

HANDLING

PRECAUTIONS

PRODUCT SAFETY

INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

Refer to product label for storage temperature conditions. Containers should be kept tightly closed and kept in cold storage at all times to extend shelf life. Shelf life is indicated by the "Use Before" date found on the product label.

PACKAGING INFORMATION

This product is available in a variety of container sizes. Contact your local Dow Corning sales representative for information about container sizes available in your area.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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