

Dryflex® CS 50A001N

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

Message:

Dryflex CS are a range of thermoplastic elastomer (TPE) compounds, based on SEBS. The range has been engineered to deliver optimised compression set performance. The raw materials used to manufacture Dryflex CS compounds are compliant with food contact regulations. The compounds also offer excellent organoleptic performance.

| General Information | | | |
|--|------------------------------|-------------------|-------------|
| Features | Food Contact Acceptable | | |
| | Good Adhesion | | |
| | Good Colorability | | |
| | Good Organoleptic Properties | | |
| | Low Compression Set | | |
| | Low to No Odor | | |
| | Recyclable Material | | |
| Uses | Connectors | | |
| | Food Packaging | | |
| | Gaskets | | |
| | Seals | | |
| | Valves/Valve Parts | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.890 | g/cm ³ | ISO 1183 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A) | 50 | | ISO 868 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress - Across Flow (Yield) | 5.30 | MPa | ISO 37 |
| Tensile Elongation - Across Flow (Break) | 850 | % | ISO 37 |
| Tear Strength - Across Flow ¹ | 15 | kN/m | ISO 34-1 |
| Compression Set ² | | | ISO 815 |
| 23°C, 72 hr | 23 | % | |
| 70°C, 22 hr | 34 | % | |
| 100°C, 22 hr | 41 | % | |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 190 to 200 | °C | |
| Middle Temperature | 200 to 210 | °C | |

| Front Temperature | 210 to 220 | °C |
|-----------------------|--------------------|------|
| Nozzle Temperature | 220 to 230 | °C |
| Mold Temperature | 15.0 to 50.0 | °C |
| Extrusion | Nominal Value | Unit |
| Cylinder Zone 1 Temp. | 150 to 160 | °C |
| Cylinder Zone 2 Temp. | 160 to 170 | °C |
| Cylinder Zone 3 Temp. | 170 to 180 | °C |
| Cylinder Zone 4 Temp. | 180 to 190 | °C |
| Cylinder Zone 5 Temp. | 180 to 200 | °C |
| NOTE | | |
| 1. | Method C, Crescent | |
| 2. | Type B | |

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