# MULTIFLEX™ TPO 7003 SW BLK 25092

POLYOLEFIN THERMOPLASTIC ELASTOMER

## Product information

| | | | |
|---|---|---|---|
| Colour | Black | | |

## Rheological properties

| | | | |
|---|---|---|---|
| Melt volume-flow rate | 4.5 | cm³/10min | ISO 1133 |
| Temperature | 230 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Moulding shrinkage, parallel | 0.8 | % | ISO 294-4, 2577 |
| Flow length | 320 | mm | |
| Flow length - pressure | 8 | MPa | |

## Typical mechanical properties

| | | | |
|---|---|---|---|
| Stress at break | 15 | MPa | ISO 527-1/-2 or ISO 37 |
| Elongation at break | 125 | % | ISO 527-1/-2 or ISO 37 |
| Flexural Modulus | 660 | MPa | ISO 178 |
| Izod notched impact strength, -30°C | 64 | kJ/m² | ISO 180/1A |
| Shore D hardness, 15s | 40 | | ISO 48-4 / ISO 868 |
| Tear strength, parallel | 100 | kN/m | ISO 34-1 |

## Other properties

| | | | |
|---|---|---|---|
| Density | 950 | kg/m³ | ISO 1183 |

## Injection

| | | |
|---|---|---|
| Drying Recommended | no | |
| Melt Temperature Optimum | 235 | °C |
| Mold Temperature Optimum | 30 | °C |
| Min. mould temperature | 20 | °C |
| Max. mould temperature | 40 | °C |
| Hold pressure range | as low as possible | MPa |
| Back pressure | 1 | MPa |
| Injection speed | Medium | mm/s |

## Storage and stability

| | | |
|---|---|---|
| Shelf life | 1800 | days |

## Characteristics

| | |
|---|---|
| Compatibility | Polyolefins |

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## Additional information

| | |
|---|---|
| Injection molding | Drying before moulding is normally not required, but may be needed if the product is stored in a high humidity environment.<br>Lower temperature on the moving part of the mould is prefered. |



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