# OnFlex™ AF 7210-70 TYF Black

## Thermoplastic Elastomer

## Key Characteristics

**Product Description**

OnFlex™ AF 7210-70 TYF Black is an easy processing TPE designed for automotive applications.

- Excellent surface finish
- Good adhesion to polypropylene
- Excellent performance in static mechanical parts such as seals & grips, panel fasteners, plugs, clips and cable clamps.
- Good UV stability

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Asia Pacific | • North America | |
| Features | • Good Processability | | |
| Uses | • Automotive Applications<br>• Fasteners | • Gaskets<br>• Overmolding | • Plugs |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

## Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density [2] | 1.00 g/cm³ | 1.00 g/cm³ | ASTM D792 |
| **Elastomers** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Stress (300% Strain) | 590 psi | 4.07 MPa | ASTM D412 |
| Tensile Strength [2] (Break) | 1040 psi | 7.19 MPa | ASTM D412 |
| Tensile Elongation [2] (Break) | 770 % | 770 % | ASTM D412 |
| **Hardness** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Shore Hardness | | | ASTM D2240 |
| Shore A, 10 sec, 73°F (23°C), 0.236 in (6.00 mm), Injection Molded | 70 | 70 | |
| **Fill Analysis** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Apparent Viscosity | | | ASTM D3835 |
| 392°F (200°C), 11200 sec^-1 | 15.0 Pa·s | 15.0 Pa·s | |

## Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Suggested Max Regrind | 20 % | 20 % |
| Rear Temperature | 320 to 370 °F | 160 to 188 °C |
| Middle Temperature | 350 to 380 °F | 177 to 193 °C |
| Front Temperature | 370 to 428 °F | 188 to 220 °C |
| Nozzle Temperature | 370 to 446 °F | 188 to 230 °C |
| Mold Temperature | 86 to 140 °F | 30 to 60 °C |
| Injection Rate | Fast | Fast |
| Back Pressure | 0.00 to 120 psi | 0.00 to 0.827 MPa |
| Screw Speed | 40 to 100 rpm | 40 to 100 rpm |

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### Notes

[1] Typical values are not to be construed as specifications.

[2] China

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