

Dynaflex™ G7640-9 (Black)

TPE

Avient Corporation

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 3 | g/10min | ASTM D 1238 |
| Temperature | 200 | °C | - |
| Load | 5 | kg | - |
| Mold Shrinkage, MD | 0.017 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------|-------|------|---------------|
| ASTM Data | | | |
| Modulus at 100% Elongation | 1.17 | MPa | ASTM D 412 |
| Modulus at 300% Elongation | 0.83 | MPa | ASTM D 412 |
| Shore A Hardness | 40 | - | ASTM D 2240 |
| Tear Strength | 17.5 | kN/m | ASTM D 624 |
| Compression Set , 22 hr @ 73 °F | 11 | % | ASTM D 395 |
| Tensile Strength at Break | 3.38 | MPa | ASTM D 412 |
| Elongation at Break | 520 | % | ASTM D 412 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1180 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|--------------|------|---------------|
| Mold temperature | 15.6 - 37.8 | °C | - |
| Zone 1 | 160 - 188 | °C | - |
| Zone 2 | 177 - 193 | °C | - |
| Zone 3 | 188 - 210 | °C | - |
| Nozzle temperature | 193 - 216 | °C | - |
| Screw speed | 25 - 100 | rpm | - |
| Injection speed | 25.4 - 76.2 | mm/s | - |
| Back pressure | 0 - 0.689 | MPa | - |
| Holding pressure | 0.362 - 1.65 | MPa | - |

Characteristics**Processing**

Injection Molding, Other Extrusion

Delivery form

Pellets, Black

Features

Good Adhesion, Soft Feel

Certifications

Food contact, Food approval FDA 21 CFR

Applications

General Purpose, Sports Equipment

Regional Availability

Asia Pacific