

# Dynaflex™ G7980-9001-02

Thermoplastic Elastomer

Avient Corporation

**PROSPECTOR®**

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## Technical Data

### Product Description

Dynaflex™ G7980-9001-02 is an easy processing, general purpose TPE designed for a wide variety of applications, including those where FDA compliance is required.

- Overmold Adhesion to Polypropylene
- Rubbery Feel
- Soft Touch

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E76261-101061783</a>
Search for UL Yellow Card	• <a href="#">Avient Corporation</a> • <a href="#">Dynaflex™</a>
Availability	• Africa & Middle East • Asia Pacific • Latin America • North America
Features	• General Purpose • Good Flow • Good Processability • Good Processing Stability • Recyclable Material
Uses	• Consumer Applications • Flexible Grips • Gaskets • General Purpose • Household Goods • Overmolding • Seals • Sporting Goods
Agency Ratings	• FDA 21 CFR 177.2600 <sup>3</sup> • UL 94
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.18 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	54 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60 to 1.1 %	ASTM D955

Elastomers	Nominal Value Unit	Test Method
Tensile Stress <sup>5, 6</sup>		ASTM D412
100% Strain, 23°C	3.65 MPa	
300% Strain, 23°C	4.07 MPa	
Tensile Strength <sup>5, 6</sup> (Break, 23°C)	6.76 MPa	ASTM D412
Tensile Elongation <sup>5, 6</sup> (Break, 23°C)	620 %	ASTM D412
Tear Strength	33.3 kN/m	ASTM D624
Compression Set (23°C, 22 hr)	26 %	ASTM D395B

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	80	ASTM D2240

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.5 mm)	HB	UL 94

Fill Analysis	Nominal Value Unit	Test Method
Apparent Viscosity (200°C, 11200 sec <sup>-1</sup> )	10.9 Pa·s	ASTM D3835

### Additional Information

Dynaflex™ G7980-900-02 can be recycled as a filler or impact modifier for polyolefins, or can be recycled by grinding and reintroduction to the molding process. Similar to PP or PE recycling process, if separated appropriately, it can be recycled many times.

Municipality waste stream recycle code is "7" which is designated for "Other".

Please contact GLS Thermoplastic Elastomers for a copy of our Recyclability Compliance letter.



Injection	Nominal Value Unit
Suggested Max Regrind	20 %
Rear Temperature	166 to 188 °C
Middle Temperature	177 to 188 °C
Front Temperature	188 to 227 °C
Nozzle Temperature	188 to 227 °C
Mold Temperature	16 to 38 °C
Back Pressure	0.00 to 0.827 MPa
Screw Speed	40 to 100 rpm

**Injection Notes**

Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP).

Regrind levels up to 20% can be used with Dynaflex™ G7980-9001-02 with minimal property loss, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should remain as low as possible. The final determination of regrind effectiveness should be determined by the customer.

Dynaflex™ G7980-9001-02 has excellent melt stability. Maximum residence times may vary, depending on the size of the barrel. Generally, the barrel should be emptied if it is idle for periods of 8 - 10 minutes or longer.

Drying is not Required

Injection Speed: 1 to 3 in/sec

1st Stage - Boost Pressure: 350 to 900 psi

2nd Stage - Hold Pressure: 30% of Boost

Hold Time (Thick Part): 3 to 10 sec

Hold Time (Thin Part): 1 to 3 sec

**Notes**

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.

<sup>4</sup> Typical properties: these are not to be construed as specifications.

<sup>5</sup> Die C

<sup>6</sup> 2 hr



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### Where to Buy

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#### Supplier

##### Avient Corporation

Cleveland, OH USA

Telephone: 1-844-4AVIENT

Web: <https://www.avient.com>

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#### Distributor

##### Avient Distribution

*Avient Distribution is a global distribution company. Contact Avient Distribution for availability of individual products by country.*

Telephone: +1-888-502-0951 (USA); +86-21-6028-4805 (China)

Web: <https://www.avientdistribution.com/>

Availability: Global

