

# Dynaflex<sup>™</sup> G7950-1001-00

**Thermoplastic Elastomer** 

# **Key Characteristics**

## Product Description

Dynaflex<sup>™</sup> G7950-1001-00 is an easy processing, general purpose material designed for a wide variety of applications, including those where FDA compliance is required.

- Overmold Adhesion to Polypropylene
- Overmoid Adhesion to Polyprop
- Rubbery Feel
- Soft Touch

Material StatusCommercial: ActiveRegional AvailabilityAfrica & Middle East • Asia PacificEurope • Latin AmericaNorth AmericaFeaturesGeneral Purpose • Good ColorabilityGood Flow • Good ProcessabilityGood Processing Stabilit • Recyclable MaterialUsesConsumer Applications • Flexible Grips • GasketsGeneral Purpose • Household Goods • OvermoldingSeals • Soft Touch Applications • Sporting GoodsAgency RatingsFDA 21 CFR 177.2600 1UL 94RoHS ComplianceRoHS CompliantEMVSS 302AppearanceNatural ColorFormsPellets				
Regional AvailabilityAfrica & Middle East Asia PacificEurope Latin AmericaNorth AmericaFeatures· General Purpose · Good Colorability· Good Flow · Good Processability· Good Processing Stabilit · Recyclable MaterialUses· Consumer Applications · Flexible Grips · Gaskets· General Purpose · Household Goods · Overmolding· Seals · Soft Touch Applications · Sporting GoodsAgency Ratings· FDA 21 CFR 177.2600 1 · ROHS Compliance· UL 94Automotive Specifications · Flexible Gold· FMVSS 302Appearance· Natural ColorForms· Pellets	Beneral			
Regional AvailabilityAsia PacificLatin AmericaNorth AmericaFeatures· General Purpose · Good Colorability· Good Flow · Good Processability· Good Processing Stabilit · Recyclable MaterialUses· Consumer Applications · Flexible Grips · Gaskets· General Purpose · Household Goods · Overmolding· Seals · Soft Touch Applications · Sporting GoodsAgency Ratings· FDA 21 CFR 177.2600 1 · UL 94· UL 94RoHS Compliance· RoHS Compliant· Matural ColorAppearance· Natural Color· Pellets	Material Status	<ul> <li>Commercial: Active</li> </ul>		
Features· Good Colorability· Good Processability· Recyclable MaterialUses· Consumer Applications · Flexible Grips · Gaskets· General Purpose · Household Goods · Overmolding· Seals · Soft Touch Applications · Sporting GoodsAgency Ratings· FDA 21 CFR 177.2600 1· UL 94RoHS Compliance· RoHS Compliant· CompliantAutomotive Specifications· FMVSS 302Appearance· Natural ColorForms· Pellets	Regional Availability		•	North America
Uses• Flexible Grips • Gaskets• Household Goods • Overmolding• Soft Touch Applications • Sporting GoodsAgency Ratings• FDA 21 CFR 177.2600 1• UL 94RoHS Compliance• RoHS CompliantAutomotive Specifications• FMVSS 302Appearance• Natural ColorForms• Pellets	Features	•		<ul><li>Good Processing Stability</li><li>Recyclable Material</li></ul>
RoHS Compliance     • RoHS Compliant       Automotive Specifications     • FMVSS 302       Appearance     • Natural Color       Forms     • Pellets	Uses	Flexible Grips	<ul> <li>Household Goods</li> </ul>	Soft Touch Applications
Automotive Specifications       • FMVSS 302         Appearance       • Natural Color         Forms       • Pellets	Agency Ratings	• FDA 21 CFR 177.2600 <sup>1</sup>	• UL 94	
Appearance     • Natural Color       Forms     • Pellets	RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>		
Forms • Pellets	Automotive Specifications	• FMVSS 302		
	Appearance	Natural Color		
Processing Method • Extrusion • Injection Molding	Forms	Pellets		
	Processing Method	Extrusion	<ul> <li>Injection Molding</li> </ul>	

## **Technical Properties**<sup>2</sup>

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Typical Value (English)	Typical Value (SI)	Test Method
1.18	1.18	ASTM D792
3.0 g/10 min	3.0 g/10 min	ASTM D1238
0.013 to 0.019 in/in	1.3 to 1.9 %	ASTM D955
Typical Value (English)	Typical Value (SI)	Test Method
250 psi	1.72 MPa	ASTM D412
360 psi	2.48 MPa	ASTM D412
660 psi	4.55 MPa	ASTM D412
620 %	620 %	ASTM D412
120 lbf/in	21.0 kN/m	ASTM D624
13 %	13 %	ASTM D395B
Typical Value (English)	Typical Value (SI)	Test Method
50	50	ASTM D2240
Typical Value (English)	Typical Value (SI)	Test Method
HB	HB	UL 94
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D3835
10.0 Pa·s	10.0 Pa·s	
	Typical Value (English) 1.18 3.0 g/10 min 0.013 to 0.019 in/in Typical Value (English) 250 psi 360 psi 660 psi 620 % 120 lbf/in 13 % Typical Value (English) 50 Typical Value (English) HB Typical Value (English)	1.18       1.18         3.0 g/10 min       3.0 g/10 min         0.013 to 0.019 in/in       1.3 to 1.9 %         Typical Value (English)       Typical Value (SI)         250 psi       1.72 MPa         360 psi       2.48 MPa         660 psi       4.55 MPa         620 %       620 %         120 lbf/in       21.0 kN/m         13 %       13 %         Typical Value (English)       Typical Value (SI)         50       50         Typical Value (English)       Typical Value (SI)         HB       HB         HB       HB         Typical Value (English)       Typical Value (SI)

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#### Additional Information

Dynaflex<sup>™</sup> G7950-1001-00 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.

### **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 390 °F	177 to 199 °C	
Front Temperature	380 to 420 °F	193 to 216 °C	
Nozzle Temperature	380 to 440 °F	193 to 227 °C	
Mold Temperature	60 to 100 °F	16 to 38 °C	
Back Pressure	0.00 to 150 psi	0.00 to 1.03 MPa	
Screw Speed	25 to 100 rpm	25 to 100 rpm	

#### Injection Notes

Color concentrates with polypropylene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (PE) carriers are most suitable for coloring Dynaflex™ G7950-1001-00. Improved color dispersion can be achieved by using higher melt flow concentrates (with a melt flow from 25 - 40 g/10 min). Typical loadings for color concentrates are 1% to 5% by weight. Concentrates based on PVC should not be used. The final determination of color concentrate suitability should be determined by customer trials.

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<sup>™</sup> G7950-1001-00 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<sup>™</sup> G7950-1001-00 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: 250 to 800 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> Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.

<sup>2</sup> Typical values are not to be construed as specifications.

<sup>3</sup> Die C

<sup>4</sup> 2 hr

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