Dynaflex™ G7950-9 NSFG

Thermoplastic Elastomer

Key Characteristics

Product Description			
Dynaflex™ G7950-9 NSFG is a NSF 51 (food equipment) approved material suitable for a wide variety of applications. -NSF 51 approved -FDA (see Notes) -Overmold Adhesion to Polypropylene -Soft Touch, Rubbery Feel			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Flow • Good Processability	• Good Processing Stability • Recyclable Material	
Uses	• Consumer Applications • Flexible Grips • Food Service Applications • Gaskets	• Household Goods • Kitchenware • Non-specific Food Applications • Overmolding	• Seals • Soft Touch Applications
Agency Ratings	• FDA 21 CFR 177.2600 [1]	• NSF STD-51	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [2]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.013 to 0.019 in/in	1.3 to 1.9 %	ASTM D955
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress [3, 4] (100% Strain, 73°F (23°C))	250 psi	1.72 MPa	ASTM D412
Tensile Stress [3, 4] (300% Strain, 73°F (23°C))	360 psi	2.48 MPa	ASTM D412
Tensile Strength [3, 4] (Break, 73°F (23°C))	660 psi	4.55 MPa	ASTM D412
Tensile Elongation [3, 4] (Break, 73°F (23°C))	620 %	620 %	ASTM D412
Tear Strength	120 lbf/in	21.0 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	13 %	13 %	ASTM D395B
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	50	50	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	10.0 Pa·s	10.0 Pa·s	

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Additional Information
Dynaflex™ G7950-9 NSFG 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 350 °F	160 to 177 °C
Middle Temperature	350 to 370 °F	177 to 188 °C
Front Temperature	370 to 420 °F	188 to 216 °C
Nozzle Temperature	370 to 440 °F	188 to 227 °C
Mold Temperature	60 to 80 °F	16 to 27 °C
Back Pressure	0.00 to 150 psi	0.00 to 1.03 MPa
Screw Speed	40 to 100 rpm	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™ G7950-9 NSFG 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™ G7950-9 NSFG 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 5 in/sec 1st Stage - Boost Pressure: 350 to 750 psi 2nd Stage - Hold Pressure: 50% of Boost Hold Time (Thick Part): 4 to 10 sec Hold Time (Thin Part): 1 to 3 sec

Notes

[1] Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.

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

[3] Die C

[4] 2 hr

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CONTACT INFORMATION

North America
Avon Lake, United States
33587 Walker Road
Avon Lake, OH, United States , 44012
+1 440 930 1000
+1 844 4AVIENT

South America
Sao Paulo, Brazil
Av. Francisco Nakasato, 1700
13295-000 Itupeva
Sao Paulo, Brazil
+55 11 4593 9200

Asia
Shanghai, China
2F, Block C
200 Jinsu Road
Pudong, 201206
Shanghai, China
+86 (0) 21 6028 4888

Europe
Pommerloch, Luxembourg
19 Route de Bastogne
Pommerloch, Luxembourg , L-9638
+352 269 050 35

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