PolyOne Dynaflex™ G7960-9 NSFG Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Dynaflex™ G7960-9 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 FeelDynaflex™ G7960-9 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.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™ G7960-9 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. 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 secInformation provided by PolyOne

Order this product through the following link:
http://www.lookpolymers.com/polymer_PolyOne-Dynaflex-G7960-9-NSFG-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Viscosity	9700 cP @Shear Rate 11200 1/s, Temperature 200 °C	9700 cP @Shear Rate 11200 1/s, Temperature 392 °F	ASTM D3835
Linear Mold Shrinkage, Flow	0.010 - 0.016 cm/cm	0.010 - 0.016 in/in	ASTM D955
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 200 °C	10 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	10 sec; ASTM D2240
Tensile Strength at Break	6.34 MPa @Temperature 23.0 °C	920 psi @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tensile Stress	2.14 MPa @Strain 100 %, Temperature 23.0 °C	310 psi @Strain 100 %, Temperature 73.4 °F	Die C2 hr; ASTM D412
	2.62 MPa @Strain 300 %, Temperature 23.0 °C	380 psi @Strain 300 %, Temperature 73.4 °F	Die C2 hr; ASTM D412

Mechanical Properties	Metric	English	Comments
Elongation at Break	760 %	760 %	Die C2 hr, ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	24.5 kN/m	140 pli	ASTM D624
Compression Set	17 % @Temperature 23.0 °C, Time 79200 sec	17 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395B

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	166 - 177 °C	331 - 351 °F	
Middle Barrel Temperature	177 - 188 °C	351 - 370 °F	
Front Barrel Temperature	188 - 216 °C	370 - 421 °F	
Nozzle Temperature	188 - 227 °C	370 - 441 °F	
Mold Temperature	15.6 - 37.8 °C	60.1 - 100 °F	
Back Pressure	0.000 - 0.827 MPa	0.000 - 120 psi	
Screw Speed	40 - 100 rpm	40 - 100 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	FDA 21 CFR 177.1210	Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.
	NSF 51	
Appearance	Black	
Features	Good Flow	
	Good Processability	
	Good Processing Stability	
	Recyclable Material	
Forms	Pellets	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Injection Molding	

Descriptive Properties	Value	Comments
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Suggested Max Regrind	20%	
Uses	Consumer Applications	
	Flexible Grips	
	Food Service Applications	
	Gaskets	
	Household Goods	
	Kitchenware	
	Non-specific Food Applications	
	Overmolding	
	Seals	
	Soft Touch Applications	

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