

Dynaflex™ G7990-1001-00

Thermoplastic Elastomer

PolyOne Corporation

Message:

Dynaflex™ G7990-1001-00 is an easy processing, general purpose TPE designed for a wide variety of applications.
Overmold Adhesion to Polypropylene
Rubbery Feel

General Information			
Features	Recyclable materials		
	Workability, good		
	Good processing stability		
	Good liquidity		
	General		
Uses	overmolding		
	Washer		
	Household goods		
	Seals		
	Soft handle		
	Sporting goods		
	General		
	Consumer goods application field		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80 - 1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	93		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 23°C	5.62	MPa	ASTM D412
300% strain, 23°C	6.62	MPa	ASTM D412
Tensile Strength (Break, 23°C)	10.7	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	610	%	ASTM D412

Tear Strength ¹ (23°C)	60.4	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	50	%	ASTM D395B
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 11200 sec ⁻¹)	15.7	Pa·s	ASTM D3835

Additional Information

Dynaflex™ G7990-1001-00 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.

Injection	Nominal Value	Unit
Suggested Max Regrind	20	%
Rear Temperature	166 - 188	°C
Middle Temperature	177 - 188	°C
Front Temperature	188 - 227	°C
Nozzle Temperature	188 - 227	°C
Mold Temperature	15.6 - 37.8	°C
Back Pressure	0.00 - 0.827	MPa
Screw Speed	40 - 100	rpm

Injection instructions

NOTE

1. 2 hr

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Recommended distributors for this material

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