Dynaflex[™] G7990-9001-02

Thermoplastic Elastomer

PolyOne Corporation

Message:

Dynaflex™ G7990-9001-02 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	Black			
Forms	Particle			
Processing Method	Extrusion			
	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.17	g/cm³	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	МРа	ASTM D412	
300% strain, 23°C	6.62	МРа	ASTM D412	
Tensile Strength (Break, 23°C)	10.7	МРа	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™ G7990-9001-02 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 - 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

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™ G7990-9001-02 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™ G7990-9001-02 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 RequiredInjection Speed: 1 to 3 in/sec1st Stage - Boost Pressure: 350 to 900 psi2nd Stage - Hold Pressure: 30% of BoostHold Time (Thick Part): 3 to 10 secHold Time (Thin Part): 1 to 3 sec

NOTE

1. 2 hr

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