

Dynaflex™ G7702-9001-02

Thermoplastic Elastomer

PolyOne Corporation

Message:

Dynaflex™ G7702-9001-02 is a high-performance TPE material with a wide range of uses.

Excellent dimensional stability

Excellent thermal stability

High resilience

Low compression set

It can be bonded to polypropylene by overlapping molding

General Information	
Features	Good dimensional stability Low compressive deformability Thermal stability, good Elastic
Uses	overmolding Lawn and Garden Equipment Washer Home appliance components Seals Application in Automobile Field
RoHS Compliance	RoHS compliance
Appearance	Black
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.4 - 2.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	37		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% strain, 23°C ²	0.965	MPa	ASTM D412
300% strain, 23°C ³	2.69	MPa	ASTM D412
Tensile Strength (Break, 23°C)	3.79	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	480	%	ASTM D412
Tear Strength	21.0	kN/m	ASTM D624

Compression Set			ASTM D395B
23°C, 22 hr	11	%	ASTM D395B
70°C, 22 hr	22	%	ASTM D395B
100°C, 22 hr	28	%	ASTM D395B
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 11200 sec ⁻¹)	10.2	Pa·s	ASTM D3835
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	171 - 193	°C	
Middle Temperature	193 - 243	°C	
Front Temperature	204 - 254	°C	
Nozzle Temperature	216 - 254	°C	
Mold Temperature	15.6 - 37.8	°C	
Back Pressure	0.00 - 0.827	MPa	
Screw Speed	25 - 100	rpm	

Injection instructions

在使用此产品之前或之后,均须用熔体流动速率较低 (0.5 - 2.5 MFR) 的聚乙烯 (PE) 或聚丙烯 (PP) 彻底进行置换.Dynaflex™ G7702-9001-02 可利用高达 20% 的回收料同时其性能所受影响却极小,但该回收料必须是未受到污染的.为了最大限度地减小模塑期间其性能所受的影响,熔体温度应维持得尽可能低.回收料的有效性应由用户最终确定.Dynaflex™ G7702-9001-02 具有极好的熔体稳定性.最长停留时间可能会根据机筒尺寸有所变化.通常,如果机器闲置 8 - 10 分钟或以上,则应将机筒排空.不需要干燥注射速度:1 - 3 英寸/秒第一阶段 - 提升压力:250 - 1000 psi第二阶段 - 保持压力:30% 的升压保持时间(厚部件):3 - 10 秒保持时间(薄部件):1 - 3 秒

NOTE

1. 2 hours
2. Mouth die c
3. C mould

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