Dynaflex™ G7940-1001-00

Thermoplastic Elastomer

PolyOne Corporation

Message:

Dynaflex™G7940-1001-00 is an easy-to-process universal TPE designed for a wide range of applications, including applications that must comply with FDA standards.
Do not slip when holding
It can be bonded to polypropylene by overlapping molding
Soft to the touch and similar to rubber

General Information	
UL YellowCard	E76261-101061778
Features	Recyclable materials Workability, good Good processing stability Good liquidity Good coloring General
Uses	overmolding Washer Household goods Seals Soft touch application Soft handle Sporting goods General Consumer goods application field
Agency Ratings	FDA 21 CFR 177.2600 3 UL 94 .QMFZ2.E76261
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.3 - 2.1	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore A, 10 sec)	40		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ASTM D412
100% strain, 23°C [2]	1.24	MPa	ASTM D412
300% strain, 23°C [3]	2.03	MPa	ASTM D412
Tensile Strength (Break, 23°C)	3.59	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	580	%	ASTM D412
Tear Strength	17.5	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	12	%	ASTM D395B
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.50 mm)	HB		UL 94
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (200°C, 11200 sec^-1)	8.80	Pa·s	ASTM D3835

Additional Information

Dynaflex™ G7940-1001-00 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	160 - 188	°C
Middle Temperature	177 - 193	°C
Front Temperature	182 - 210	°C
Nozzle Temperature	193 - 216	°C
Mold Temperature	15.6 - 37.8	°C
Back Pressure	0.00 - 0.689	MPa
Screw Speed	25 - 100	rpm

Injection instructions

以聚丙烯 (PP),乙烯醋酸乙烯共聚物 (EVA) 或低密度聚乙烯 (PE) 为基础的色母料最适合 Dynaflex™ G7940-1001-00 着色.使用熔体流动速率较高(范围为 25 - 40 克/10 分钟)的色母料,则能达到较好的颜色分散效果.典型的色母料用量为 1% 至 5%(重量).不应采用以 PVC
为基础的色母料.色母料是否适用,应由用户通过试验来最终确定.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™ G7940-1001-00 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,熔体温度应尽可能低.回收料的有效性应由用户最终确定.Dynaflex™ G7940-1001-00
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:175 - 800 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

Recommended distributors for this material

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