Dynaflex™ G2711C

Thermoplastic Elastomer

PolyOne Corporation

Message:

Dynaflex™G2711C is an easy-to-process composite material designed for injection molding and extrusion molding applications that require compliance with FDA standards.
Excellent coloring
Strong stability of ozone and ultraviolet light
It can be bonded to polypropylene by overlapping molding
Similar to rubber
Soft to the touch

General Information	
Features	Good UV resistance Recyclable materials Good coloring Ozone resistance
Uses	overmolding Personal care Soft touch application Consumer goods application field
Agency Ratings	FDA Not Rated 2
RoHS Compliance	RoHS compliance
Appearance	Translucent
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	43		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (300% Strain, 23°C)	2.55	MPa	ASTM D412
Tensile Strength (Break, 23°C)	5.36	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	640	%	ASTM D412
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (200°C, 11200 sec^-1)	12.8	Pa·s	ASTM D3835
Additional Information			

Dynaflex™ G2711C 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	149 - 188	°C
Middle Temperature	182 - 193	°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	25 - 75	rpm

Injection instructions

以聚丙烯 (PP),乙烯醋酸乙烯共聚物 (EVA) 或聚乙烯 (PE) 为基础的色母料最适合 Dynaflex™ G2711C 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).可以使用液体颜料,但以矿物油为基础的载体对最终硬度值会有显著的影响.不应采用以 PVC 为基础的色母料.若使用 GLS 可供的预着色复合材料,则可达到较好的配色一致性.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™ G2711C 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™ G2711C 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 - 5 英寸/秒第一阶段 - 提升压力:400 - 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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China