

Versaflex™ CL2242

Thermoplastic Elastomer

PolyOne Corporation

Message:

Versaflex™CL2242 is an easy-to-process composite material designed for injection molding applications that require compliance with FDA standards, transparency and high heat resistance.
New Products. Commercial norms have not yet been established.
Extremely high transparency
It can be bonded to polypropylene by overlapping molding
Excellent coloring
Very good heat resistance and cooking resistance

General Information			
Features	Workability, good		
	Good formability		
	Good processing stability		
	Good coloring		
	Definition, high		
Uses	Transparent Parts		
	overmolding		
	Personal care		
	Transparent or Translucent Accessories		
	Rubber nipple		
Agency Ratings	FDA 21 CFR 177.1210 2		
	ISO 10993 Part 4		
	ISO 10993 Part 5		
	USP Class VI		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	26	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.70 - 1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	43		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	7.21	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% strain, 23°C ²	1.05	MPa	ASTM D412
300% strain, 23°C ³	2.03	MPa	ASTM D412
Tensile Strength (Break, 23°C)	5.04	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	780	%	ASTM D412
Tear Strength	21.7	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	23	%	ASTM D395B
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 11200 sec ⁻¹)	9.70	Pa·s	ASTM D3835
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	171 - 188	°C	
Middle Temperature	193 - 221	°C	
Front Temperature	193 - 227	°C	
Nozzle Temperature	210 - 227	°C	
Processing (Melt) Temp	210 - 221	°C	
Mold Temperature	12.8 - 37.8	°C	
Back Pressure	0.00 - 0.552	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 Versaflex™ CL2242 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可对最终硬度值会有显著影响. 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. Versaflex™ CL2242 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. Versaflex™ CL2242 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: 0.5 - 2 英寸/秒 第一阶段 - 提升压力: 100 - 800 psi 第二阶段 - 保持压力: 30% 的升压保持时间(厚部件): 4 - 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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