

Versaflex™ OM 9-801N

Thermoplastic Elastomer

PolyOne Corporation

Message:

Versaflex™OM 9-801N is designed to be bonded to a wide range of matrix materials by overlapping molding, including PC (polycarbonate), ABS, PC/ABS, HIPS (high impact polystyrene), PPO (polyphenylene ether resin), acetal resin, acrylic resin and copolyester.
New Products. Commercial norms have not yet been established.
can be bonded with various matrix materials
Similar to rubber
Soft to the touch
Excellent surface aesthetics

General Information			
UL YellowCard	E76261-101061819		
Features	Excellent appearance		
Uses	overmolding		
	Soft touch application		
	Soft handle		
	Sporting goods		
	General		
Agency Ratings	FDA not rated		
	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	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	22	g/10 min	ASTM D1238
200°C/5.0 kg	100	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	47		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% strain, 23°C ²	1.45	MPa	ASTM D412
300% strain, 23°C ³	1.80	MPa	ASTM D412
Tensile Strength (Break, 23°C)	4.49	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	820	%	ASTM D412

Tear Strength	17.5	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	43	%	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)	15.6	Pa·s	ASTM D3835
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	182 - 193	°C	
Middle Temperature	188 - 202	°C	
Front Temperature	193 - 204	°C	
Nozzle Temperature	199 - 218	°C	
Mold Temperature	21.1 - 37.8	°C	
Back Pressure	0.172 - 0.345	MPa	
Screw Speed	75 - 125	rpm	
Injection instructions			

以聚乙烯 (PE) 或低密度聚乙烯 (EVA) 为基础的色母料最适合 Versaflex™ OM 9-801N 着色.典型的母料浓度为 50:1 到 25:1 - 要最大限度减少对粘接的影响,用量应该尽可能低.若使用 GLS 可供的预着色复合材料,则可达较好的配色一致性.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) 的聚苯乙烯 (PS) 或聚丙烯 (PP) 彻底进行置换.Versaflex™ OM 9-801N 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™ OM 9-801N 具有良好的熔体稳定性.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 5 - 8 分钟或以上,则应将机筒排空.不需要干燥注射速度:0.5 - 3 英寸/秒第一阶段 - 提升压力:500 - 900 psi第二阶段 - 保持压力:70% 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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