

# Versaflex™ OM 6059-9

Thermoplastic Elastomer

PolyOne Corporation

## Message:

Versaflex™OM 6059-9 is specially designed to bond a variety of standard and modified nylon materials, including those that have undergone glass filling, thermal stabilization treatment and/or impact improvement.

Very strong coloring ability

Excellent adhesion during secondary or insert injection molding

Soft, similar to rubber when held in hand

very easy to process

| General Information                  |                     |                   |             |
|--------------------------------------|---------------------|-------------------|-------------|
| UL YellowCard                        | E76261-101061807    |                   |             |
| Features                             | Workability, good   |                   |             |
|                                      | Good coloring       |                   |             |
|                                      | Good adhesion       |                   |             |
| Agency Ratings                       | UL 94 .QMFZ2.E76261 |                   |             |
| Appearance                           | Black               |                   |             |
| Processing Method                    | Injection molding   |                   |             |
| Physical                             | Nominal Value       | Unit              | Test Method |
| Specific Gravity                     | 1.10                | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                             | Nominal Value       | Unit              | Test Method |
| Durometer Hardness (Shore A, 10 sec) | 58                  |                   | ASTM D2240  |
| Elastomers                           | Nominal Value       | Unit              | Test Method |
| Tensile Stress (100% Strain, 23°C)   | 1.75                | MPa               | ASTM D412   |
| Tensile Strength (Break, 23°C)       | 2.45                | MPa               | ASTM D412   |
| Tensile Elongation (Break, 23°C)     | 290                 | %                 | ASTM D412   |
| Compression Set                      |                     |                   | ASTM D395B  |
| 22°C, 22 hr                          | 14                  | %                 | ASTM D395B  |
| 70°C, 22 hr                          | 63                  | %                 | ASTM D395B  |
| Flammability                         | Nominal Value       |                   | Test Method |
| Flame Rating (1.50 mm)               | HB                  |                   | UL 94       |
| Fill Analysis                        | Nominal Value       | Unit              | Test Method |
| Apparent Viscosity                   |                     |                   | ASTM D3835  |
| 200°C, 1340 sec <sup>-1</sup>        | 75.0                | Pa · s            | ASTM D3835  |
| 200°C, 11200 sec <sup>-1</sup>       | 16.9                | Pa · s            | ASTM D3835  |
| Injection                            | Nominal Value       | Unit              |             |
| Suggested Max Regrind                | 20                  | %                 |             |
| Rear Temperature                     | 182 - 204           | °C                |             |
| Middle Temperature                   | 243 - 266           | °C                |             |
| Front Temperature                    | 249 - 271           | °C                |             |

|                        |              |     |
|------------------------|--------------|-----|
| Nozzle Temperature     | 254 - 277    | °C  |
| Processing (Melt) Temp | 249 - 271    | °C  |
| Mold Temperature       | 12.8 - 29.4  | °C  |
| Back Pressure          | 0.00 - 0.552 | MPa |
| Screw Speed            | 80 - 120     | 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.Versaflex™ OM 6059-9 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 6059-9 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 8 - 10 分钟或以上,则应将机筒排空.不需要干燥注射速度:3 - 6 英寸/秒第一阶段 - 提升压力:300 - 800 psi第二阶段 - 保持压力:0% 的升压保持时间(厚部件):0 - 4 秒保持时间(薄部件):0 - 3 秒

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