

# Versaflex™ FFC 2882-50 EU

Thermoplastic Elastomer

PolyOne Corporation

## Message:

Versaflex™ FFC 2882-50 EU is a model designed to pass some migration tests of fatty foods specified in European Food Standard 82/711/EEC. Versaflex™ FFC 2882-50 EU can be bonded or co-extruded with polypropylene

| General Information                                  |                                                                                                                              |                   |                 |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|
| Features                                             | Compliance of Food Exposure                                                                                                  |                   |                 |
| Uses                                                 | overmolding<br>Kitchen utensils<br>Washer<br>Non-specific food applications<br>Container<br>Consumer goods application field |                   |                 |
| Agency Ratings                                       | EU 82/711/EEC 10 days at 40C in 95% ethanol 2<br>EU 82/711/EEC 3 hrs at 60C in 95% ethanol 2                                 |                   |                 |
| RoHS Compliance                                      | RoHS compliance                                                                                                              |                   |                 |
| Appearance                                           | Translucent                                                                                                                  |                   |                 |
| Forms                                                | Particle                                                                                                                     |                   |                 |
| Processing Method                                    | Extrusion<br>Injection molding                                                                                               |                   |                 |
| Physical                                             | Nominal Value                                                                                                                | Unit              | Test Method     |
| Specific Gravity                                     | 0.890                                                                                                                        | g/cm <sup>3</sup> | ISO 1183        |
| Hardness                                             | Nominal Value                                                                                                                | Unit              | Test Method     |
| Durometer Hardness (Shore A, 3 sec)                  | 52                                                                                                                           |                   | DIN 53505       |
| Elastomers                                           | Nominal Value                                                                                                                | Unit              | Test Method     |
| Tensile Stress                                       |                                                                                                                              |                   | ISO 37          |
| 100% strain, 23°C <sup>1</sup>                       | 1.20                                                                                                                         | MPa               | ISO 37          |
| 300% strain, 23°C                                    | 2.20                                                                                                                         | MPa               | ISO 37          |
| Tensile Strength <sup>2</sup> (Break, 23°C)          | 9.50                                                                                                                         | MPa               | ISO 37          |
| Tensile Elongation <sup>3</sup> (Break, 23°C)        | 550                                                                                                                          | %                 | ISO 37          |
| Fill Analysis                                        | Nominal Value                                                                                                                | Unit              | Test Method     |
| Apparent Viscosity (200°C, 11200 sec <sup>-1</sup> ) | 40.2                                                                                                                         | Pa · s            | Internal method |
| Injection                                            | Nominal Value                                                                                                                | Unit              |                 |
| Suggested Max Regrind                                | 20                                                                                                                           | %                 |                 |
| Rear Temperature                                     | 190 - 205                                                                                                                    | °C                |                 |

|                        |              |     |
|------------------------|--------------|-----|
| Middle Temperature     | 200 - 215    | °C  |
| Front Temperature      | 205 - 225    | °C  |
| Nozzle Temperature     | 210 - 235    | °C  |
| Processing (Melt) Temp | 205 - 225    | °C  |
| Mold Temperature       | 20.0 - 60.0  | °C  |
| Back Pressure          | 0.00 - 0.552 | MPa |
| Screw Speed            | 50 - 100     | rpm |

#### Injection instructions

以聚丙烯(PP), 乙烯-醋酸乙烯(EVA), 或低密度的聚乙烯(LDPE)为载体的色母粒最适合用于Versaflex™ FFC 2882-50 EU 的着色. 高流动性的色母粒(熔融指数在25-40克/10分钟)有助于提高颜色的分散. 典型的色母粒添加重量比例为1%-5%. 也可以使用色油进行着色, 但以矿物油作为载体的色油对产品的最终硬度有显著的影响. 不建议使用以PVC做载体的色母粒. 如需高质量的颜色控制, GLS公司可以提供预着色产品. 色母粒的适用性应由客户根据实际的试生产情况而最终确定. 在使用前和后, 都要用熔融指数在0.5-2.5的聚乙烯(PE)或聚丙烯(PP)进行彻底的清洗. 在回收料没有污染的前提下, 最高可以用20%比例的Versaflex™ FFC 2882-50 EU 回收料和新料混和使用, 同时不至于影响材料的特性. 为尽可能降低对材料特性的影响和损耗, 加工温度应尽可能的低. 回收料的最终使用效果应由客户实际试生产情况决定. Versaflex™ FFC 2882-50 EU

有优异的熔体稳定性. 最大的停留时间因料筒尺寸差异而不同. 一般在闲置8-10分钟或更长时间后, 料筒内材料应被清空. 该产品不需要干燥注射速度:

1-3英寸/秒一段: 注射压力: 500-700 psi二段: 保压压力: 10%-30%注射压力保压时间(厚部件): 2-4秒保压时间(薄部件): 1-2秒

| Extrusion        | Nominal Value | Unit |
|------------------|---------------|------|
| Melt Temperature | 205 - 225     | °C   |
| Die Temperature  | 215 - 235     | °C   |

#### Extrusion instructions

Rear: 190-205°C Center: 195-215°C Front: 205-225°C Screw: 100-500 rpm

#### NOTE

1. 2 hours
2. 2 hours
3. 2 hours

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