



# OnFlex™ U 5365A-E0134 FG

## Thermoplastic Elastomer

### Key Characteristics

#### Product Description

OnFlex™ U 5365A-E0134 FG is a performance TPU alloy designed for use in injection molding application where FDA compliance and Overmolding onto PC, ABS and PC/ABS substrates are required.

#### General

|                       |  |                             |                 |
|-----------------------|--|-----------------------------|-----------------|
| Material Status       | • Commercial: Active                     |                             |                 |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Appearance            | • Natural Color                          |                             |                 |
| Forms                 | • Pellets                                |                             |                 |
| Processing Method     | • Injection Molding                      |                             |                 |

### Technical Properties <sup>1</sup>

| Physical                 | Typical Value (English)                          | Typical Value (SI)                               | Test Method |
|--------------------------|--|--|-------------|
| Density                  | 1.09 g/cm <sup>3</sup>                           | 1.09 g/cm <sup>3</sup>                           | ISO 1183    |
| Elastomers               | Typical Value (English)                          | Typical Value (SI)                               | Test Method |
| Tensile Stress           |  |  | DIN 53504   |
| Across Flow : Break      | 3290 psi   | 22.7 MPa   |             |
| Flow : Break             | 1900 psi   | 13.1 MPa   |             |
| Tensile Elongation       |  |  | DIN 53504   |
| Across Flow : Break      | 830 %  | 830 %  |             |
| Flow : Break             | 620 %  | 620 %  |             |
| Hardness                 | Typical Value (English)                          | Typical Value (SI)                               | Test Method |
| Shore Hardness (Shore A) | 65   | 65   | DIN 53505   |
| Additional Information   | Typical Value (English)                          | Typical Value (SI)                               |             |
| Generic Material Type    | Thermoplastic<br>Polyurethane<br>Elastomer (TPU) | Thermoplastic<br>Polyurethane<br>Elastomer (TPU) |             |

Properties are measured using injection molded plaques.

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 212 °F                  | 100 °C             |
| Drying Time            | 2.0 hr                  | 2.0 hr             |
| Suggested Max Moisture | 0.10 %                  | 0.10 %             |
| Processing (Melt) Temp | 338 to 410 °F           | 170 to 210 °C      |
| Mold Temperature       | 86 to 140 °F            | 30 to 60 °C        |
| Injection Rate         | Slow                    | Slow               |

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.