# Lifoflex® UV FLAM 40700

Thermoplastic Elastomer

Müller Kunststoffe GmbH

## Message:

Lifoflex FLAM are a range of halogen-free flame retardant thermoplastic elastomers (TPEs) designed to meet the most demanding applications where resistance to ignition and burning are important features.
Lifoflex FLAM compounds contain additives to give them better resistance to burning compared to general TPE grades. The range includes halogen, chlorine and antimony free grades which are low smoke and compliant with the Restriction of Hazardous Substances (RoHS) directives, offering flame retardancy without the use of polybrominated diphenyl ether (PBDE).

| General Information | |
|---|---|
| Additive | Flame retardancy |
| Features | Chlorine Free<br>Low smoke<br>Good flexibility<br>Good adhesion<br>Halogen-free<br>No antimony<br>Flame retardancy |
| Uses | Wire and cable applications<br>Electronic insulation<br>Washer<br>Washer<br>Reflector<br>Connector<br>Profile |
| Agency Ratings | EU 2003/11/EC |
| RoHS Compliance | RoHS compliance |
| Processing Method | Extrusion<br>Injection molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.10 | g/cm³ | ISO 1183 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A, 3 sec) | 40 | | DIN 53505 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress - Across Flow (Yield) | 1.40 | MPa | DIN 53504 |
| Tensile Elongation - Across Flow (Break) | 460 | % | DIN 53504 |
| Compression Set | | | ISO 815 |

| | | | |
|---|---|---|---|
| 23°C, 72 hr | 12 | % | ISO 815 |
| 70°C, 22 hr | 39 | % | ISO 815 |

| Flammability | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Flame Rating (1.50 mm) | V-0 | | UL 94 |
| | 850 | | |
| Glow Wire Ignition Temperature (3.00 mm) | 650 | °C | IEC 60695-2-13 |

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 80.0 | °C |
| Drying Time | 2.0 - 3.0 | hr |
| Rear Temperature | 170 - 180 | °C |
| Middle Temperature | 180 - 190 | °C |
| Front Temperature | 190 - 200 | °C |
| Nozzle Temperature | 200 - 210 | °C |
| Mold Temperature | 15.0 - 50.0 | °C |

| Extrusion | Nominal Value | Unit |
|---|---|---|
| Cylinder Zone 1 Temp. | 150 - 160 | °C |
| Cylinder Zone 2 Temp. | 160 - 170 | °C |
| Cylinder Zone 3 Temp. | 170 - 180 | °C |
| Cylinder Zone 4 Temp. | 180 - 190 | °C |
| Die Temperature | 180 - 200 | °C |



## Recommended distributors for this material

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