# OnFlex™ S KA 60A-3S1769

## Thermoplastic Elastomer

### Key Characteristics

| Product Description |
|---|
| OnFlex™-S KA thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds are specially compatabilized to provide excellent adhesion to polyamide polymers including PA6, PA6.6, PA11 and PA12. OnFlex™-S KA can be processed by 2K molding or overmolding, insert molding or co-extrusion. In addition to this, OnFlex™-S KA compounds are formulated to provide excellent compression set performance, even at elevated temperatures, a wide hardness range, good colourability and surface appearance, good mechanical properties and excellent UV resistance. |

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Good Adhesion | • High Heat Resistance | • UV Resistant |
| Uses | • Automotive Applications<br>• Consumer Applications | • Industrial Applications<br>• Overmolding | • Power/Other Tools |
| RoHS Compliance | • RoHS Compliant | | |
| Forms | • Pellets | | |
| Processing Method | • Coextrusion | • Multi Injection Molding | |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density | 1.09 g/cm³ | 1.09 g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 0.90 g/10 min | 0.90 g/10 min | ISO 1133 |
| Melt Volume-Flow Rate (MVR) (190°C/5.0 kg) | 1.9 cm³/10min | 1.9 cm³/10min | ISO 1133 |
| **Elastomers** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Stress (100% Strain) | 348 psi | 2.40 MPa | ISO 37 |
| Tensile Stress (300% Strain) | 609 psi | 4.20 MPa | ISO 37 |
| Tensile Stress (Break) | 653 psi | 4.50 MPa | ISO 37 |
| Tensile Elongation (Break) | 450 % | 450 % | ISO 37 |
| Tear Strength | 172 lbf/in | 30.1 kN/m | ISO 34-1 |
| Compression Set | | | ISO 815 |
| 73°F (23°C), 72 hr | 13 % | 13 % | |
| 158°F (70°C), 22 hr | 31 % | 31 % | |
| 212°F (100°C), 22 hr | 55 % | 55 % | |
| **Hardness** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Shore Hardness (Shore A, 10 sec) | 60 | 60 | ISO 48-4 |

| Additional Information | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Generic Material Type | Styrenic Thermoplastic Elastomer (TES) | Styrenic Thermoplastic Elastomer (TES) |

Properties are measured using injection molded plaques.

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## Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Drying Temperature | 212 °F | 100 °C |
| Drying Time | 2.0 hr | 2.0 hr |
| Processing (Melt) Temp | 392 to 500 °F | 200 to 260 °C |
| Mold Temperature | 86 to 122 °F | 30 to 50 °C |
| Injection Rate | Moderate | Moderate |

### Notes

[1] Typical values are not to be construed as specifications.

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