

## PolyOne OnFlex™ S KG 60A-3S2018 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

### Material Notes:

OnFlex™-S KG 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 KG can be processed by 2K molding or overmolding, insert molding or co-extrusion. In addition to this, OnFlex™-S KG compounds are formulated to provide good processability and a good cost/performance ratio, a wide hardness range, good colourability and good mechanical properties. Properties are measured using injection molded plaques. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-OnFlex-S-KG-60A-3S2018-Thermoplastic-Elastomer-TPE.php](http://www.lookpolymers.com/polymer_PolyOne-OnFlex-S-KG-60A-3S2018-Thermoplastic-Elastomer-TPE.php)

| Physical Properties | Metric    | English       | Comments |
|---------------------|-----------|---------------|----------|
| Density             | 1.13 g/cc | 0.0408 lb/in³ | ISO 1183 |

| Mechanical Properties     | Metric                                           | English                                         | Comments |
|---------------------------|--------------------------------------------------|-------------------------------------------------|----------|
| Hardness, Shore A         | 60                                               | 60                                              | ISO 868  |
| Tensile Strength at Break | 3.50 MPa                                         | 508 psi                                         | ISO 37   |
| Tensile Stress            | 2.20 MPa<br>@Strain 100 %                        | 319 psi<br>@Strain 100 %                        | ISO 37   |
| Elongation at Break       | 290 %                                            | 290 %                                           | ISO 37   |
| Tear Strength             | 21.0 kN/m                                        | 120 pli                                         | ISO 34-1 |
| Compression Set           | 32 %<br>@Temperature 23.0 °C,<br>Time 259000 sec | 32 %<br>@Temperature 73.4 °F,<br>Time 72.0 hour | ISO 815  |
|                           | 62 %<br>@Temperature 70.0 °C,<br>Time 79200 sec  | 62 %<br>@Temperature 158 °F,<br>Time 22.0 hour  | ISO 815  |
|                           | 81 %<br>@Temperature 100 °C,<br>Time 79200 sec   | 81 %<br>@Temperature 212 °F,<br>Time 22.0 hour  | ISO 815  |

| Processing Properties | Metric         | English       | Comments |
|-----------------------|----------------|---------------|----------|
| Melt Temperature      | 200 - 260 °C   | 392 - 500 °F  |          |
| Mold Temperature      | 30.0 - 50.0 °C | 86.0 - 122 °F |          |
| Drying Temperature    | 100 °C         | 212 °F        |          |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Descriptive Properties  | Value                                  | Comments |
|-------------------------|----------------------------------------|----------|
| Features                | General Purpose                        |          |
|                         | Good Adhesion                          |          |
| Forms                   | Pellets                                |          |
| Generic Material        | TPE                                    |          |
| Generic Material Type   | Styrenic Thermoplastic Elastomer (TES) |          |
| Generic Name            | Thermoplastic Elastomer (TPE)          |          |
| Injection Rate          | Moderate                               |          |
| Manufacturer / Supplier | GLS Thermoplastic Elastomers           |          |
| Processing Method       | Coextrusion                            |          |
|                         | Multi Injection Molding                |          |
| Regional Availability   | Africa & Middle East                   |          |
|                         | Asia Pacific                           |          |
|                         | Europe                                 |          |
|                         | North America                          |          |
|                         | South America                          |          |
| RoHS Compliance         | RoHS Compliant                         |          |
| Uses                    | Automotive Applications                |          |
|                         | Consumer Applications                  |          |
|                         | Industrial Applications                |          |
|                         | Overmolding                            |          |
|                         | Power/Other Tools                      |          |

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