

OnFlex™ S KE 40A-3S1727

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-S KE thermoplastic elastomer polymer is mixed with hydrogenated styrene block copolymer. This series of polymers has good compatibility and can provide excellent adhesion to a variety of polar substrates, such as PC, ABS, PC/ABS, ASA, and PVC materials. OnFlex-S KE polymer can be processed by 2K molding or multiple injection molding, plug-in molding or co-extrusion. In addition, OnFlex-S KE polymer has good compression set even at high temperatures, good processability, large hardness range, good bending, scratch resistance, colorability, surface appearance, etc. at low temperatures, and excellent mechanical properties.

| General Information | | | |
|------------------------------|----------------------------------|-------------------|-------------|
| Features | Good adhesion | | |
| | Scratch resistance | | |
| Uses | overmolding | | |
| | Power/other tools | | |
| | Industrial application | | |
| | Application in Automobile Field | | |
| | Consumer goods application field | | |
| RoHS Compliance | RoHS compliance | | |
| Forms | Particle | | |
| Processing Method | Multiple injection molding | | |
| | Co-extrusion molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.06 | g/cm ³ | ISO 1183 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 40 | | ISO 868 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ISO 37 |
| 100% strain | 1.20 | MPa | ISO 37 |
| 300% strain | 2.80 | MPa | ISO 37 |
| Tensile Stress (Break) | 3.60 | MPa | ISO 37 |
| Tensile Elongation (Break) | 300 | % | ISO 37 |
| Tear Strength | 13 | kN/m | ISO 34-1 |
| Compression Set | | | ISO 815 |
| 23°C, 72 hr | 38 | % | ISO 815 |
| 70°C, 22 hr | 51 | % | ISO 815 |
| 100°C, 22 hr | 72 | % | ISO 815 |
| Additional Information | Nominal Value | | |

| | | |
|--|--|------|
| General Material Type | Styrene thermoplastic elastomers (TES) | |
| 各项属性值是采用注射模制基板测量得出.压缩永久变形值是 100°C 时 24 小时零件变形实验得出的值. | | |
| Injection | Nominal Value | Unit |
| Drying Temperature | 100 | °C |
| Drying Time | 2.0 | hr |
| Processing (Melt) Temp | 200 - 230 | °C |
| Mold Temperature | 20.0 - 40.0 | °C |
| Injection Rate | Slow-Moderate | |

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