# Elastocon® STK70

Thermoplastic Elastomer

Elastocon TPE Technologies

## Message:

Elastocon® STK70 thermoplastic elastomer has been developed for applications that require ultra soft rubber-like properties and a good surface finish. Elastocon® STK70 is well suited for consumer goods and industrial applications requiring non-slip/soft touch ergonomics, sound and vibration dampening, improved impact resistance, and U.V. stability. Elastocon® STK70 can be overmolded to polycarbonate, ABS, PC/ABS, Acrylic, HIPS, and various grades of nylon 6 and 6/6.

| General Information | |
|---|---|
| Features | Shock absorption |
| | Noise reduction |
| | Impact resistance, good |
| | Good UV resistance |
| | Soft |
| | Excellent appearance |
| Uses | overmolding |
| | Industrial application |
| | Consumer goods application field |
| Forms | Particle |
| Processing Method | Blow molding |
| | Extrusion |
| | Injection molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Specific Gravity | 0.920 | g/cm³ | ASTM D792 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A) | 67 | | ASTM D2240 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress (100% Strain) | 1.80 | MPa | ASTM D412 |
| Tensile Strength (Yield) | 8.30 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 540 | % | ASTM D412 |
| **Injection** | **Nominal Value** | **Unit** | |
| Rear Temperature | 210 - 216 | °C | |
| Front Temperature | 216 - 266 | °C | |
| Nozzle Temperature | 227 - 277 | °C | |
| Mold Temperature | 27.0 - 49.0 | °C | |
| Back Pressure | 0.520 - 1.21 | MPa | |
| Injection instructions | | | |

Elastocon® thermoplastic elastomers are shear dependent and have been formulated to process on conventional thermoplastic equipment for injection molding, extrusion or blow molding. Our tests have shown that overmolding onto a non-gloss, matte surface finish will help optimize overmold adhesion to the substrate. Be sure to incorporate mechanical interlocks and 1:1 through holes whenever possible when designing two shot components. Feathered edges should always be avoided to ensure adequate and consistant shut off against the substrate, while also eliminating exposed tapered edges that can be subject to adhesive failure.Injection Rate: 1 to 5 in/sec

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