

Elastocon® 8078B

Thermoplastic Elastomer
Elastocon TPE Technologies

Message:

Elastocon® 8078B is a black thermoplastic elastomer formulated for applications that require rubber-like properties and a good surface finish. Elastocon® 8078B is well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® 8078B can be overmolded to polypropylene.

| General Information | | | |
|------------------------------|----------------------------------|-------------------|-------------|
| Additive | Lubricant | | |
| | UV stabilizer | | |
| Features | Good UV resistance | | |
| | Soft | | |
| | Excellent appearance | | |
| Uses | overmolding | | |
| | Industrial application | | |
| | Consumer goods application field | | |
| Appearance | Black | | |
| Forms | Particle | | |
| Processing Method | Blow molding | | |
| | Extrusion | | |
| | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.04 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 82 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 5.06 | MPa | ASTM D412 |
| Tensile Strength (Yield) | 9.43 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 570 | % | ASTM D412 |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 177 - 193 | °C | |
| Front Temperature | 182 - 199 | °C | |
| Nozzle Temperature | 188 - 204 | °C | |
| Mold Temperature | 21.1 - 37.8 | °C | |
| Injection Rate | Moderate-Fast | | |
| Back Pressure | 0.689 - 1.38 | 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.

| Extrusion | Nominal Value | Unit |
|-----------------------|---------------|------|
| Hopper Temperature | < 79.4 | °C |
| Cylinder Zone 1 Temp. | 191 - 232 | °C |
| Cylinder Zone 2 Temp. | 191 - 232 | °C |
| Cylinder Zone 3 Temp. | 191 - 232 | °C |
| Cylinder Zone 4 Temp. | 191 - 232 | °C |
| Cylinder Zone 5 Temp. | 191 - 232 | °C |
| Die Temperature | 191 - 232 | °C |

Extrusion instructions

Compression ratio: 2.5 to 3.0

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