

Elastocon® 2865PE

Thermoplastic Elastomer

Elastocon TPE Technologies

Message:

Elastocon® 2865PE thermoplastic elastomer has been developed for applications that require rubber-like properties and a good surface finish. Elastocon® 2865PE is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® 2865PE can be overmolded and coextruded with polyethylene.

| General Information | |
|---------------------|----------------------------------|
| Features | 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 | 0.890 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 62 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 2.43 | MPa | ASTM D412 |
| Tensile Strength (Yield) | 7.70 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 590 | % | ASTM D412 |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 177 | °C | |
| Front Temperature | 182 - 188 | °C | |
| Nozzle Temperature | 193 - 204 | °C | |
| Mold Temperature | 21.1 - 37.8 | °C | |
| Injection Rate | Fast | | |
| Back Pressure | 0.689 - 1.38 | MPa | |
| 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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