

# Elastocon® 2860L

Thermoplastic Elastomer

Elastocon TPE Technologies

## Message:

Elastocon® 2860L thermoplastic elastomer has been developed for applications that require rubber-like properties and a reduced coefficient of friction. Elastocon® 2860L is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® 2860L can be overmolded onto polypropylene.

| General Information |                                  |  |  |
|---------------------|----------------------------------|--|--|
| Additive            | UV stabilizer                    |  |  |
| Features            | Low friction coefficient         |  |  |
|                     | Good UV resistance               |  |  |
|                     | Soft                             |  |  |
| Uses                | overmolding                      |  |  |
|                     | Industrial application           |  |  |
|                     | Consumer goods application field |  |  |
| Agency Ratings      | FDA not rated                    |  |  |
| Forms               | Particle                         |  |  |
| Processing Method   | Blow molding                     |  |  |
|                     | Extrusion                        |  |  |
|                     | Injection molding                |  |  |

| Physical                 | Nominal Value | Unit              | Test Method |
|--------------------------|---------------|-------------------|-------------|
| Specific Gravity         | 0.880         | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow | 2.0           | %                 | ASTM D955   |

| Hardness                     | Nominal Value | Unit | Test Method |
|------------------------------|---------------|------|-------------|
| Durometer Hardness (Shore A) | 60            |      | ASTM D2240  |

| Elastomers                    | Nominal Value | Unit | Test Method |
|-------------------------------|---------------|------|-------------|
| Tensile Stress (100% Strain)  | 2.00          | MPa  | ASTM D412   |
| Tensile Strength (Yield)      | 5.86          | MPa  | ASTM D412   |
| Tensile Elongation (Break)    | 650           | %    | ASTM D412   |
| Compression Set (70°C, 22 hr) | 17            | %    | ASTM D395B  |

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature   | 166 - 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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