

Elastocon TPE Technologies Elastocon® 2860L Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

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. Information provided by Elastocon® TPE Technologies

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elastocon-TPE-Technologies-Elastocon-2860L-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---------------------|---------------------|-----------|
| Specific Gravity | 0.880 g/cc | 0.880 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.015 - 0.025 cm/cm | 0.015 - 0.025 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------|-------------------------|------------|
| Hardness, Shore A | 60 | 60 | ASTM D2240 |
| Tensile Strength, Yield | 5.86 MPa | 850 psi | ASTM D412 |
| Elongation at Break | 550 % | 550 % | ASTM D412 |
| 100% Modulus | 0.00200 GPa | 0.290 ksi | ASTM D412 |
| Compression Set | 17 % @Time 79200 sec | 17 % @Time 22.0 hour | ASTM D395B |

| Processing Properties | Metric | English | Comments |
|--------------------------|------------------|---------------|----------|
| Feed Temperature | 79.0 °C | 174 °F | |
| Rear Barrel Temperature | 166 - 177 °C | 330 - 350 °F | |
| Front Barrel Temperature | 182 - 188 °C | 360 - 370 °F | |
| Nozzle Temperature | 193 - 204 °C | 380 - 400 °F | |
| Mold Temperature | 21.1 - 37.8 °C | 70.0 - 100 °F | |
| Back Pressure | 0.689 - 1.38 MPa | 100 - 200 psi | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Injection Rate | Fast | |

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