

Elastocon TPE Technologies Elastocon® 2810 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Elastocon® 2810 thermoplastic elastomer has been developed for applications that require ultra soft rubber-like properties and a good surface finish. Elastocon® 2810 is FDA compliant and well suited for consumer goods and industrial applications requiring non-slip/soft touch ergonomics and resilience. Elastocon® 2810 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-2810-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---------------------|---------------------|-----------|
| Specific Gravity | 0.860 g/cc | 0.860 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.022 - 0.032 cm/cm | 0.022 - 0.032 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------------|--------------------------|------------|
| Hardness, Shore A | 10 | 10 | ASTM D2240 |
| Tensile Strength, Yield | 1.57 MPa | 227 psi | ASTM D412 |
| Elongation at Break | 575 % | 575 % | ASTM D412 |
| 100% Modulus | 0.000496 GPa | 0.0720 ksi | ASTM D412 |
| Compression Set | 9.0 % @Time 79200 sec | 9.0 % @Time 22.0 hour | ASTM D395B |

| Processing Properties | Metric | English | Comments |
|--------------------------|-------------------|----------------|----------|
| Feed Temperature | <= 79.0 °C | <= 174 °F | |
| Rear Barrel Temperature | 138 - 160 °C | 280 - 320 °F | |
| Front Barrel Temperature | 166 - 182 °C | 330 - 360 °F | |
| Nozzle Temperature | 182 - 204 °C | 360 - 400 °F | |
| Mold Temperature | 15.6 - 48.9 °C | 60.0 - 120 °F | |
| Back Pressure | 0.345 - 0.689 MPa | 50.0 - 100 psi | |

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

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