



# STK56PA-B

Elastocon® STK56PA-B black thermoplastic elastomer has been developed for applications that require soft rubber-like properties and a good surface finish. Elastocon® STK56PA-B is well suited for consumer goods and industrial applications requiring non-slip/soft touch ergonomics, sound and vibration dampening, improved impact resistance, and U.V. stability. Elastocon® STK56PA-B can be overmolded to nylon.

Elastocon® STK56PA-B is supplied as ready to use pellets in 1000 lb. quantities.

| Typical Physical Properties |                             |           |               |
|-----------------------------|-----------------------------|-----------|---------------|
| Property                    | Referenced ASTM Test Method | Test Unit | Typical Value |
| Hardness                    | ASTM D2240                  | Shore A   | 60            |
| Specific Gravity            | ASTM D792                   | g/cc      | 1.14          |
| Tensile Properties          | ASTM D412                   |           |               |
| Tensile Strength            | ASTM D412                   | Mpa (psi) | 5.9 (856)     |
| 100% Modulus                | ASTM D412                   | Mpa (psi) | 4.3 (618)     |
| Elongation                  | ASTM D412                   | %         | 192           |
| Tear Strength               | ASTM D624                   | pli       | 211           |

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For additional technical, sales, and order assistance:

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## **Design & Processing**

Elastocon® thermoplastic elastomers are shear dependent and have been formulated to process on conventional thermoplastic equipment for injection molding, extrusion or blow molding. Our tests have shown that overmolding onto a non-gloss, matte surface finish will help optimize overmold adhesion to the substrate. Be sure to incorporate mechanical interlocks and 1:1 through holes whenever possible when designing two shot components. Feathered edges should always be avoided to ensure adequate and consistent shut off against the substrate, while also eliminating exposed tapered edges that can be subject to adhesive failure.

| <b>Suggested Processing Conditions</b> |                |               |
|--|----------------|---------------|
| <b>Barrel Temperatures</b>             | <b>English</b> | <b>SI</b>     |
| Rear                                   | 480-500F       | 250-260C      |
| Front                                  | 510-530F       | 265-277C      |
| Nozzle                                 | 530-545F       | 277-285C      |
| <b>Mold Temperature</b>                | 180F-220F      | 82-104C       |
| <b>Back Pressure</b>                   | 50-100 psi     | .345-.689 MPa |
| <b>Injection Rate</b>                  | Fast           | Fast          |

**Elastocon® STK56PA-B thermoplastic elastomer compound does not require drying.**

Elastocon® thermoplastic elastomers are not compatible with flexible PVC and should not be blended with or used in an application where direct contact is intended.

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