

# Bergaflex™ BFI 75A-320 black SO6 UV

## Thermoplastic Elastomer

### Key Characteristics

#### Product Description

Bergaflex™ BFI 75A-320 black SO6 UV is a thermoplastic elastomer based on styrenic block copolymers. This Compound is specially developed to deliver excellent UV stability.

#### General

|                       |                                  |   |                 |
|-----------------------|----------------------------------|---|-----------------|
| Material Status       | • Commercial: Active             |   |                 |
| Regional Availability | • Asia Pacific                   | • Europe                                | • North America |
| Features              | • General Purpose<br>• Good Flow | • Good Processability<br>• UV Resistant |                 |
| RoHS Compliance       | • RoHS Compliant                 |   |                 |
| Appearance            | • Black                          |   |                 |
| Forms                 | • Pellets                        |   |                 |
| Processing Method     | • Injection Molding              |   |                 |

### Technical Properties <sup>1</sup>

| Physical                                       | Typical Value (English) | Typical Value (SI) | Test Method |
|--|-------------------------|--------------------|-------------|
| Density / Specific Gravity                     | 1.18                    | 1.18               | ISO 1183    |
| Elastomers                                     | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Stress <sup>2</sup>                    |                         |                    | ISO 37      |
| Break, 73°F (23°C), 0.0787 in (2.00 mm)        | 1170 psi                | 8.10 MPa           |             |
| Tensile Elongation <sup>2</sup>                |                         |                    | ISO 37      |
| Break, 73°F (23°C), 0.0787 in (2.00 mm)        | 620 %                   | 620 %              |             |
| Compression Set                                |                         |                    | ISO 815     |
| 73°F (23°C), 72 hr                             | 25 %                    | 25 %               |             |
| 158°F (70°C), 22 hr                            | 42 %                    | 42 %               |             |
| Hardness                                       | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness <sup>3</sup>                |                         |                    | ISO 7619    |
| Shore A, 10 sec, 73°F (23°C), Injection Molded | 75                      | 75                 |             |

### Processing Information

| Injection             | Typical Value (English) | Typical Value (SI) |
|-----------------------|-------------------------|--------------------|
| Suggested Max Regrind | 20 %                    | 20 %               |
| Rear Temperature      | 329 to 347 °F           | 165 to 175 °C      |
| Middle Temperature    | 347 to 383 °F           | 175 to 195 °C      |
| Front Temperature     | 365 to 437 °F           | 185 to 225 °C      |
| Nozzle Temperature    | 383 to 437 °F           | 195 to 225 °C      |
| Mold Temperature      | 68 to 104 °F            | 20 to 40 °C        |
| Back Pressure         | 290 to 1450 psi         | 2.00 to 10.0 MPa   |
| Screw Speed           | 40 to 100 rpm           | 40 to 100 rpm      |

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 7.9 in/min (200 mm/min)

<sup>3</sup> ±5 Sh A