

G100.A40.B

### **PRODUCT DESCRIPTION**

A soft , black SEBS based thermoplastic elastomer (TPE) compound that offers good physical properties and chemical resistance.

| GENERAL PROPERTIES |   |  |  |
|--------------------|---|--|--|
| Material Status    | Active  |  |  |
| Availability       | Europe<br>North America<br>Asia- Pasific<br>Africa & Middle East  |  |  |
| Features           | Good Mechanical Properties<br>Good Chemical Resistance<br>Ozone Resistance<br>Adhesion to Polyolefins<br>Compliant with RoHS Directive 2011/65/EU |  |  |
| Certification      | RoHS  |  |  |
| Appearance         | Black   |  |  |
| Form               | Pellets   |  |  |
| Processing Method  | Injection   |  |  |

| riysical rioperiles                 |                                      |                        |                              |  |
|-------------------------------------|--------------------------------------|------------------------|------------------------------|--|
| Property                            | Typical Value (English)              | Typical Value (SI)     | Test Method                  |  |
| Density                             | 1.16 g/cm <sup>3</sup>               | 1,16 g/cm <sup>3</sup> | ASTM D 792                   |  |
| Durometer Hardness, 3 sec (Shore A) | 40.00                                | 40,00                  | ASTM D 2240                  |  |
| Tensile Strength at Break           | 435 Psi                              | 3,00 MPa               | ASTM D412, Method A          |  |
| Mod.of Elasticity %100              | 145 Psi                              | 1,00 MPa               | ASTM D412, Method A          |  |
| Mod.of Elasticity %300              | 232 Psi                              | 1,60 MPa               | ASTM D412, Method A          |  |
| Elongation at break                 | 800.00 %                             | 800,00 %               | ASTM D412, Method A          |  |
| Compression Set (at 73 °F, 22 h)    | 19.00 %                              | 19,00 %                | ASTM D 395, Type 2, Method B |  |
| Compression Set (at 158 °F, 22 h)   | ession Set (at 158 °F, 22 h) 43.00 % |                        | ASTM D 395, Type 2, Method B |  |
| Compression Set (at 212 °F, 22 h)   | 66.00 %                              | 66,00 %                | ASTM D 395, Type 2, Method B |  |
| Tear Resistance                     | 119.91 lbf/in                        | 21,00 N/mm             | ASTM D624                    |  |

| Shrinkage  |                         |                    |             |  |
|------------|-------------------------|--------------------|-------------|--|
| Property   | Typical Value (English) | Typical Value (SI) | Test Method |  |
| low        | 1.70%                   | 1.70%              | ASTM D955   |  |
| cross Flow | 1.23%                   | 1.23%              | ASTM D955   |  |

| Property            | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------|-------------------------|--------------------|-------------|
| Flammability Rating | HB                      | HB                 | UL 94       |
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## elas n ENGINEERING LIFE

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| Ageing Tests              |                         |                    |             |  |  |
|---------------------------|-------------------------|--------------------|-------------|--|--|
| Additional Information    | Typical Value (English) | Typical Value (SI) | Test Method |  |  |
| Ozone Resistance-Stressed | No cracks               | No cracks          | ASTM D 1149 |  |  |
| Bondable to               |                         |                    |             |  |  |
| PE-PP-EVA                 |                         |                    |             |  |  |
|                           |                         |                    |             |  |  |

Elastron products are not compatible with PVC and Acetal. Regrinding level up to %20 is recommended with minimum property loss.

| Processing              |                         |       |              |                    |  |
|-------------------------|-------------------------|-------|--------------|--------------------|--|
| Injection Molding       | Typical Value (English) |       | Typical V    | Typical Value (SI) |  |
| Drying temperatures     | -                       | °F    | -            | °C                 |  |
| Drying time             | No need                 | hours | No need      | hours              |  |
| Rear Zone temp.         | 293-347                 | °F    | 145- 175     | °C                 |  |
| Middle Zone temp.       | 311-365                 | °F    | 155- 185     | °C                 |  |
| Front Zone temp.        | 320-374                 | °F    | 160- 190     | °C                 |  |
| Nozzle Temperature      | 347-401                 | °F    | 175- 205     | °C                 |  |
| Injection Speed         | Low/ Mod                | -     | Low/ Mod     | -                  |  |
| Injection Time          | 3- 5                    | sec.  | 3- 5         | sec.               |  |
| Injection Pressure      | 10- 40                  | bar   | 10- 40       | bar                |  |
| Hold Pressure           | 5- 20                   | bar   | 5- 20        | bar                |  |
| Back Pressure           | 5- 40                   | bar   | 5- 40        | bar                |  |
| Screw Speed             | 50- 200                 | rpm   | 50- 200      | rpm                |  |
| Mold Temperature        | 77-122                  | °F    | 25- 50       | °C                 |  |
| Screw Comp. ratio       | 1.5:1- 2.0:1            | -     | 1.5:1- 2.0:1 | -                  |  |
| Screw L/D ratio         | 18- 24                  | -     | 18- 24       | -                  |  |
| Residence time          | 1-2 shot                | -     | 1-2 shot     | -                  |  |
| Cushion size            | 0.3120                  | inc   | 8            | mm                 |  |
| Suggested Max Regrind   | 20                      | %     | 20           | %                  |  |
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## ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS



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