



P.G401.A45.B

PRODUCT DESCRIPTION

A soft , black SEBS based thermoplastic elastomer (TPE) compound designed for use in medical applications.

| GENERAL PROPERTIES | | | |
|--------------------|---|--|--|
| Material Status | Active | | |
| Availability | Europe North America Asia- Pasific Africa & Middle East | | |
| Features | Ozone Resistance Adhesion to Polyolefins Recyclable Compliant with RoHS Directive 2011/65/EU Compliant with USP Class VI Requirements | | |
| Certification | RoHS | | |
| Appearance | Black | | |
| Form | Pellets | | |
| Processing Method | Injection,Extrusion | | |

| Physical Properties | | | | |
|-------------------------------------|-------------------------|------------------------|------------------------------|--|
| Property | Typical Value (English) | Typical Value (SI) | Test Method | |
| Density | 0.88 g/cm³ | 0,88 g/cm ³ | ASTM D 792 | |
| Durometer Hardness, 3 sec (Shore A) | 45.00 | 45,00 | ASTM D 2240 | |
| Tensile Strength at Break | 1015 Psi | 7,00 MPa | ASTM D412, Method A | |
| Mod.of Elasticity %100 | 131 Psi | 0,90 MPa | ASTM D412, Method A | |
| Mod.of Elasticity %300 | 232 Psi | 1,60 MPa | ASTM D412, Method A | |
| Elongation at break | 1200.00 % | 1200,00 % | ASTM D412, Method A | |
| Compression Set (at 73 °F, 22 h) | 13.00 % | 13,00 % | ASTM D 395, Type 2, Method B | |
| Compression Set (at 158 °F, 22 h) | 31.00 % | 31,00 % | ASTM D 395, Type 2, Method B | |
| Compression Set (at 212 °F, 22 h) | 49.00 % | 49,00 % | ASTM D 395, Type 2, Method B | |
| Tear Resistance | 142.75 lbf/in | 25,00 N/mm | ASTM D624 | |

| Shrinkage Shrinkage | | | | | |
|---------------------|-------------------------|--------------------|-------------|--|--|
| Property | Typical Value (English) | Typical Value (SI) | Test Method | | |
| Flow | 2.08% | | ASTM D955 | | |
| Across Flow | 1.69% | 1.69% | ASTM D955 | | |

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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

Additional Information

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 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 |
| njection Speed | Low/ Mod | - | Low/ Mod | - |
| njection Time | 3- 5 | sec. | 3- 5 | sec. |
| njection 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 | % |

| Extrusion Molding | Typical Value (English) | | Typical Value (SI) | |
|-----------------------|-------------------------|-------|--------------------|-------|
| Drying temperatures | - | °F | - | °C |
| Drying time | No need | hours | No need | hours |
| Screw Comp. Ratio | 1.5:1- 2.0:1 | - | 1.5:1- 2.0:1 | - |
| Screw L/D | 18- 30 | - | 18- 30 | - |
| Feed Zone temp. | 302-338 | °F | 150- 170 | °C |
| Rear Zone temp. | 311-347 | °F | 155- 175 | °C |
| Center Zone temp. | 329-365 | °F | 165- 185 | °C |
| Front Zone temp. | 347-401 | °F | 175- 205 | °C |
| Head temp. | 356-410 | °F | 180- 210 | °C |
| Die temp. | 374-410 | °F | 190- 210 | °C |
| Suggested Max Regrind | 20 | % | 20 | % |

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Notes

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ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS









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