

V201.A59.B

A soft , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family which offers higher temperature resistance and good compression set with good UV resistance

| GENERAL PROPERTIES | | | |
|--------------------|---|--|--|
| Material Status | Active | | |
| Availability | Europe North America Asia- Pasific Africa & Middle East | | |
| Features | Designed for Higher Heat Resistance Excellent Compression Set Ozone Resistance Adhesion to Polyolefins Recyclable Compliant with RoHS Directive 2011/65/EU | | |
| Certification | RoHS | | |
| Appearance | Black | | |
| Form | Pellets | | |
| Processing Method | Injection,Extrusion | | |

GM/GMW 15813P (TYPE 4E)

| Touris al Malana (E a alfala) | | | |
|-------------------------------|---|--|--|
| Typical Value (English) | Typical Value (SI) | Test Method | |
| 0.97 g/cm³ | 0,97 g/cm ³ | ASTM D 792 | |
| 60.00 | 60,00 | ASTM D 2240 | |
| 798 Psi | 5,50 MPa | ASTM D412, Method A | |
| 247 Psi | 1,70 MPa | ASTM D412, Method A | |
| 464 Psi | 3,20 MPa | ASTM D412, Method A | |
| 500.00 % | 500,00 % | ASTM D412, Method A | |
| 19.00 % | 19,00 % | ASTM D 395, Type 2, Method B | |
| 28.00 % | 28,00 % | ASTM D 395, Type 2, Method B | |
| 35.00 % | 35,00 % | ASTM D 395, Type 2, Method B | |
| 125.62 lbf/in | 22,00 N/mm | ASTM D624 | |
| | 60.00 798 Psi 247 Psi 464 Psi 500.00 % 19.00 % 28.00 % 35.00 % | 60.00 60,00 798 Psi 5,50 MPa 247 Psi 1,70 MPa 464 Psi 3,20 MPa 500.00 % 500,00 % 19.00 % 19,00 % 28.00 % 28,00 % 35.00 % 35,00 % | |

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|--|--|----|--|
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| | | | |
| | | | |

| Property | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------|-------------------------|--------------------|-------------|
| Flow | 2.30% | 2.30% | ASTM D955 |
| Across Flow | 1.50% | 1.50% | 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 | | | | | | |
| | | | | | | |

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

| Processing | | | | | |
|-----------------------|--------------|--------------|--------------------|-------|--|
| Injection Molding | Typical Val | ue (English) | Typical Value (SI) | | |
| Drying temperatures | 194 | °F | 90 | °C | |
| Drying time | 2 | hours | 2 | hours | |
| Rear Zone temp. | 311-347 | °F | 155- 175 | °C | |
| Middle Zone temp. | 329-365 | °F | 165- 185 | °C | |
| Front Zone temp. | 338-374 | °F | 170- 190 | °C | |
| Nozzle Temperature | 356-410 | °F | 180- 210 | °C | |
| Injection Speed | High | - | High | - | |
| Injection Time | 1- 3 | sec. | 1- 3 | 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 | 2.0:1- 4.0:1 | - | 2.0:1- 4.0:1 | - | |
| 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 Val | ue (English) | Typical Value (SI) | | |
|-----------------------|--------------|--------------|--------------------|------------|--|
| Drying temperatures | 194 | °F | 90 | °C | |
| Drying time | 2 | hours | 2 | hours | |
| Screw Comp. Ratio | 2.0:1- 4.0:1 | - | 2.0:1- 4.0:1 | - | |
| Screw L/D | 18- 30 | - | 18- 30 | - | |
| Feed Zone temp. | 311-329 | °F | 155- 165 | °C | |
| Rear Zone temp. | 320-356 | °F | 160- 180 | °C | |
| Center Zone temp. | 329-365 | °F | 165- 185 | °C | |
| Front Zone temp. | 338-374 | °F | 170- 190 | °C | |
| Head temp. | 356-410 | °F | 180- 210 | °C | |
| Die temp. | 365-419 | °F | 185- 215 | °C | |
| Suggested Max Regrind | 20 | % | 20 | % | |
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ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS



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