



V201.A75.B

PRODUCT DESCRIPTION

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 | | |

Automotive Specifications

GM/GMW 15813P (TYPE 6E)

FCA/MS-AR100-CGN

FORD/WSD-M2D380-A1

| Physical Properties | | | | |
|-------------------------------------|-------------------------|------------------------|------------------------------|--|
| Property | Typical Value (English) | Typical Value (SI) | Test Method | |
| Density | 0.97 g/cm³ | 0,97 g/cm ³ | ASTM D 792 | |
| Durometer Hardness, 3 sec (Shore A) | 75.00 | 75,00 | ASTM D 2240 | |
| Tensile Strength at Break | 1088 Psi | 7,50 MPa | ASTM D412, Method A | |
| Mod.of Elasticity %100 | 450 Psi | 3,10 MPa | ASTM D412, Method A | |
| Mod.of Elasticity %300 | 653 Psi | 4,50 MPa | ASTM D412, Method A | |
| Elongation at break | 550.00 % | 550,00 % | ASTM D412, Method A | |
| Compression Set (at 73 °F, 22 h) | 20.00 % | 20,00 % | ASTM D 395, Type 2, Method B | |
| Compression Set (at 158 °F, 22 h) | 38.00 % | 38,00 % | ASTM D 395, Type 2, Method B | |
| Compression Set (at 212 °F, 22 h) | 50.00 % | 50,00 % | ASTM D 395, Type 2, Method B | |
| Tear Resistance | 171.30 lbf/in | 30,00 N/mm | ASTM D624 | |

| Shrinkage | | | | | |
|-------------|--|-------|-----------|--|--|
| Property | roperty Typical Value (English) Typical Value (SI) | | | | |
| Flow | 1.91% | 1.91% | ASTM D955 | | |
| Across Flow | 1.13% | 1.13% | ASTM D955 | | |

| Flammability | | | | |
|---------------------|-------------------------|--------------------|-------------|--|
| Property | Typical Value (English) | Typical Value (SI) | Test Method | |
| Flammability Rating | НВ | НВ | UL 94 | |

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| Ageing Tests | | | | |
|---------------------------|---|--|-------------|--|
| Additional Information | ional Information Typical Value (English) | | Test Method | |
| Ozone Resistance-Stressed | one Resistance-Stressed 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.

| Injection Molding | Typical Value (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 |
| njection Speed | High | - | High | - |
| njection Time | 1- 3 | sec. | 1- 3 | 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 | 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 | - |
| ushion size | 0.3120 | inc | 8 | mm |
| uggested Max Regrind | 20 | % | 20 | % |

| Extrusion Molding | Typical Value (English) | | Typical \ | /alue (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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Notes

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









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