

**PRODUCT DESCRIPTION**

A soft , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family which offers higher temperature resistance and very good compression set with very good UV resistance. This product is specially designed for weatherseal applications.

**GENERAL PROPERTIES**

<b>Material Status</b>	Active
<b>Availability</b>	Europe North America Asia- Pasific Africa & Middle East
<b>Features</b>	Ozone Resistance Adhesion to Polyolefins Recyclable Compliant with RoHS Directive 2011/65/EU
<b>Certification</b>	RoHS
<b>Appearance</b>	Black
<b>Form</b>	Pellets
<b>Processing Method</b>	Injection, Extrusion

**Automotive Specifications**

GM/GMW 15812P (TYPE 6E) FCA/MS-AR100-CGV

**Physical Properties**

Property	Typical Value (English)	Typical Value (SI)	Test Method
<b>Density</b>	0.96 g/cm³	0,96 g/cm³	ASTM D 792
<b>Durometer Hardness, 3 sec (Shore A)</b>	75.00	75,00	ASTM D 2240
<b>Tensile Strength at Break</b>	1160 Psi	8,00 MPa	ASTM D412, Method A
<b>Mod.of Elasticity %100</b>	464 Psi	3,20 MPa	ASTM D412, Method A
<b>Mod.of Elasticity %300</b>	682 Psi	4,70 MPa	ASTM D412, Method A
<b>Elongation at break</b>	600.00 %	600,00 %	ASTM D412, Method A
<b>Compression Set (at 73 °F, 22 h)</b>	20.00 %	20,00 %	ASTM D 395, Type 2, Method B
<b>Compression Set (at 158 °F, 22 h)</b>	38.00 %	38,00 %	ASTM D 395, Type 2, Method B
<b>Compression Set (at 212 °F, 22 h)</b>	50.00 %	50,00 %	ASTM D 395, Type 2, Method B
<b>Tear Resistance</b>	182.72 lbf/in	32,00 N/mm	ASTM D624

**Shrinkage**

Property	Typical Value (English)	Typical Value (SI)	Test Method
<b>Flow</b>	2.25%	2.25%	ASTM D955
<b>Across Flow</b>	1.10%	1.10%	ASTM D955

**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.

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
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 Value (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	%

#### Notes

The company name, the brand, the logo and all kinds of visuals and writings in this document are the property of Elastron. It cannot be copied, distributed, modified or reproduced without the express written permission of Elastron. Independently, these documents can only be printed for personal use. However, in any case, the visuals and writings contained here cannot be used in another document or web page.

All the visuals, texts, information and explanations and the like in this document are for promotional purposes, giving information and providing convenience to the user. The values presented in this document apply only to the product mentioned above and cannot be extended to other products in general. Elastron is not responsible for the results that may arise from tests outside the control of Elastron. Although Elastron bases the information and suggestions contained herein on reliable data, it does not guarantee that such information and suggestions are correct and that the product is suitable for its intended use.

The user should know that Elastron must obtain the final information before taking any action by referring to the information and suggestions contained in this document.

Elastron reserves the right, at its discretion, to change or terminate the content of the document at any time and in any way.

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

