

# Elastron

F.G400.A80.B

## TECHNICAL DATASHEET

### PRODUCT DESCRIPTION

A soft , black SEBS based thermoplastic elastomer (TPE) compound designed for contact with non-fatty foods. The monomers and additives used to produce this product are listed in the Union List of Authorized Substances of Regulation 10/2011/EC and meets the FDA requirements contained in the Code of Federal Regulations, 21 CFR.

### GENERAL PROPERTIES

<b>Color</b>	Black
<b>Certifications</b>	RoHS
<b>Processing Method</b>	Injection
<b>Available Standards</b>	ASTM

### Physical Properties

Property	Unit	Standard	Value
Density	g/cm <sup>3</sup>	ASTM D 792	0.90
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	80.00
Tensile Strength at Break	MPa	ASTM D412, Method A	12.00
Mod.of Elasticity %100	MPa	ASTM D412, Method A	3.10
Mod.of Elasticity %300	MPa	ASTM D412, Method A	4.50
Elongation at break	%	ASTM D412, Method A	850.00
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	28.00
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	55.00
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	72.00
Tear Resistance	N/mm	ASTM D624	50.00

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## Ageing Tests

Property	Unit	Standard	Value
Ozone Resistance	Stressed	ASTM D 1149	No cracks

## Bondable to

PE-PP-EVA

## Processing

Injection	Unit	Value
Drying temperatures	°C	-
Drying time	hours	No need
Rear Zone temp.	°C	145- 175
Middle Zone temp.	°C	155- 185
Front Zone temp.	°C	160- 190
Nozzle Temperature	°C	175- 205
Injection Speed	-	Low/ Mod
Injection Time	sec.	3- 5
Injection Pressure	bar	10- 40
Hold Pressure	bar	5- 20
Back Pressure	bar	5- 40
Screw Speed	rpm	50- 200
Mold Temperature	°C	25- 50
Screw Comp. ratio	-	1.5:1- 2.0:1
Screw L/D ratio	-	18- 24
Residence time	-	1- 2 shot
Cushion size	mm	8
Suggested Max Regrind	%	20

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### Additional Information

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

Shrinkage	Unit	Standard	Value
Flow	%	ASTM D955	2.10
Across Flow	%	ASTM D955	1.76

### Notes

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

