

# Elastron

G301.A45.B

## TECHNICAL DATASHEET

### PRODUCT DESCRIPTION

A soft , black SEBS based thermoplastic elastomer (TPE) compound that offers good physical properties and chemical resistance.

### GENERAL PROPERTIES

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

Physical Properties			
Property	Unit	Standard	Value
Density	g/cm <sup>3</sup>	ASTM D 792	0.98
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	45.00
Tensile Strength at Break	MPa	ASTM D412, Method A	8.50
Mod.of Elasticity %100	MPa	ASTM D412, Method A	1.20
Mod.of Elasticity %300	MPa	ASTM D412, Method A	2.00
Elongation at break	%	ASTM D412, Method A	900.00
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	13.00
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	39.00
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	57.00
Tear Resistance	N/mm	ASTM D624	27.00

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Ageing Tests			
Property	Unit	Standard	Value
Ozone Resistance	Stressed	ASTM D 1149	No cracks
Bondable to			
PE-PP-EVA			
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 Re grind	%		20
Drying time	hours		No need
Screw Comp. Ratio	-		1.5:1- 2.0:1
Screw L/D	-		18- 30
Feed Zone temp.	°C		150- 170
Rear Zone temp.	°C		155- 175
Center Zone temp.	°C		165- 185
Front Zone temp.	°C		175- 205
Head temp.	°C		180- 210
Die temp.	°C		190- 210
Suggested Max Re grind	%		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	1.83
Across Flow	%	ASTM D955	1.33

### Notes

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