

Elastron

G103.A63.B

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

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

GENERAL PROPERTIES

Color	Black
Certifications	RoHS
Processing Method	Injection
Available Standards	ASTM

Automotive Specifications

GM/GMW 14722

Physical Properties

Property	Unit	Standard	Value
Density	g/cm³	ASTM D 792	1.20
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	63.00
Tensile Strength at Break	MPa	ASTM D412, Method A	6.20
Mod.of Elasticity %100	MPa	ASTM D412, Method A	1.90
Mod.of Elasticity %300	MPa	ASTM D412, Method A	2.60
Elongation at break	%	ASTM D412, Method A	700.00
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	19.00
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	56.00
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	79.00
Tear Resistance	N/mm	ASTM D624	30.00

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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
Drying time	hours	-
Screw Comp. Ratio	-	-
Screw L/D	-	-
Feed Zone temp.	°C	-
Rear Zone temp.	°C	-
Center Zone temp.	°C	-
Front Zone temp.	°C	-
Head temp.	°C	-
Die temp.	°C	-
Suggested Max Regrind	%	-

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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	1.95
Across Flow	%	ASTM D955	1.23

Notes

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