

Elastron

V281.A87.B

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A soft , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer family designed for drinking water applications with a metal deactivator for applications in contact with copper.

GENERAL PROPERTIES

Color	Black
Certifications	RoHS
Processing Method	Injection Extrusion
Available Standards	ASTM

Physical Properties

Property	Unit	Standard	Value
Density	g/cm ³	ASTM D 792	0.97
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	87.00
Tensile Strength at Break	MPa	ASTM D412, Method A	10.00
Mod.of Elasticity %100	MPa	ASTM D412, Method A	5.30
Mod.of Elasticity %300	MPa	ASTM D412, Method A	6.90
Elongation at break	%	ASTM D412, Method A	550.00
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	30.00
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	44.00
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	52.00
Tear Resistance	N/mm	ASTM D624	45.00

FR07.03.16 Rev.06

Rev.00000

Page 1 / 3

Elastron

V281.A87.B

Ageing Tests			
Property	Unit	Standard	Value
Ozone Resistance	Stressed	ASTM D 1149	No cracks
Bondable to			
PE-PP-EVA			
Drying time	hours		2
Rear Zone temp.	°C		155- 175
Middle Zone temp.	°C		165- 185
Front Zone temp.	°C		170- 190
Nozzle Temperature	°C		180- 210
Injection Speed	-		High
Injection Time	sec.		1- 3
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	-		2.0:1- 4.0:1
Screw L/D ratio	-		18- 24
Residence time	-		1-2 shot
Cushion size	mm		8
Suggested Max Re grind	%		20
Drying time	hours		2
Screw Comp. Ratio	-		2.0:1- 4.0:1
Screw L/D	-		18- 30
Feed Zone temp.	°C		155- 165
Rear Zone temp.	°C		160- 180
Center Zone temp.	°C		165- 185
Front Zone temp.	°C		170- 190
Head temp.	°C		180- 210
Die temp.	°C		185- 215
Suggested Max Re grind	%		20

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V281.A87.B

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	
Across Flow	%	ASTM D955	

Notes

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