

Elastron

V100.A90.B

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A hard , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family designed for injection applications.

GENERAL PROPERTIES

Color	Black
Certifications	RoHS
Processing Method	Injection
Available Standards	ASTM

Physical Properties			
Property	Unit	Standard	Value
Density	g/cm ³	ASTM D 792	0.96
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	90.00
Tensile Strength at Break	MPa	ASTM D412, Method A	11.00
Mod.of Elasticity %100	MPa	ASTM D412, Method A	4.90
Mod.of Elasticity %300	MPa	ASTM D412, Method A	6.30
Elongation at break	%	ASTM D412, Method A	600.00
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	29.00
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	51.00
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	72.00
Tear Resistance	N/mm	ASTM D624	46.00

FR07.03.16 Rev.06

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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	90
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	-	Moderate
Injection Time	sec.	2- 4
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	1.87
Across Flow	%	ASTM D955	1.22

Notes

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