



Elastron

G301.A90.B

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

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

GENERAL PROPERTIES

Color Black
Certifications RoHS

Processing Method Injection Extrusion

Available Standards ASTM

Physical Properties					
Property	Unit	Standard	Value		
Density	g/cm³	ASTM D 792	1.04		
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	90.00		
Tensile Strength at Break	MPa	ASTM D412, Method A	15.00		
Mod.of Elasticity %100	MPa	ASTM D412, Method A	5.50		
Mod.of Elasticity %300	MPa	ASTM D412, Method A	6.80		
Elongation at break	%	ASTM D412, Method A	850.00		
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	39.00		
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	62.00		
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	78.00		
Tear Resistance	N/mm	ASTM D624	75.00		

FR07.03.16 Rev.06 Rev.0002 Page 1/3





Elastron

G301.A90.B

Ageing Tests					
Property	Unit	Standard	Value		
Ozone Resistance	Stressed	ASTM D 1149	No cracks		
	Bond	dable to			
	PE-I	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			
lozzle Temperature	°C	175- 205			
njection Speed	-	Low/ Mod			
njection Time	sec.	3- 5			
njection Pressure	bar	10- 40			
Hold Pressure	bar	5- 20			
Back Pressure	bar	5- 40			
Screw Speed	rpm	50- 200			
Nold 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	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- 2	190- 210		
Suggested Max Regrind	%	20			
FR07.03.16 Rev.06	•	F	Rev.00002 Page 2 / 3		

FR07.03.16 Rev.006 Rev.00002 Page 2/3





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G301.A90.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	1.43
Across Flow	%	ASTM D955	1.15

Notes

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









FR07.03.16 Rev.06 Rev.0002 Page 3 / 3