Elastron

G104.A50.B

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A soft , black SEBS-based thermoplastic elastomer (TPE) compound engineered for high flowability, offering an optimized balance of mechanical performance and chemical resistance.

GENERAL PROPERTIES

Color	Black
Certifications	RoHS
Processing Method	Injection
Available Standards	ASTM

Physical Properties

Property	Unit	Standard	Value
Density	g/cm³	ASTM D 792	1.16
Hardness, 3 sec	Shore A	ASTM D 2240	50.00
Tensile Strength at Break	MPa	ASTM D412, Method A	4.00
Mod.of Elasticity %100	MPa	ASTM D412, Method A	1.00
Mod.of Elasticity %300	MPa	ASTM D412, Method A	1.50
Elongation at Break	%	ASTM D412, Method A	850.00
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	45.00
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	66.00
Flammability Rating	HB, V0, V1, V2	UL 94	HB
Tear Resistance	N/mm	ASTM D624	20.00

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Ageing Tests			
Property	**Unit**	**Standard**	**Value**
Ozone Resistance	Stressed	ASTM D 1149	No cracks

Bondable to
PP

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	1.92
Across Flow	%	ASTM D955	1.08

Notes

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