

Elastron

V101.D51.B

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A hard , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer family that offers good physical properties and chemical resistance

GENERAL PROPERTIES

Color	Black
Certifications	RoHS
Processing Method	Injection Extrusion
Available Standards	ASTM

Automotive Specifications

GM/ GMW 15813(TYPE 10)

Physical Properties

Property	Unit	Standard	Value
Density	g/cm³	ASTM D 792	0.95
Durometer Hardness, 3 sec	Shore D	ASTM D 2240	51.00
Tensile Strength at Break	MPa	ASTM D412, Method A	20.00
Mod.of Elasticity %100	MPa	ASTM D412, Method A	12.70
Mod.of Elasticity %300	MPa	ASTM D412, Method A	14.30
Elongation at break	%	ASTM D412, Method A	700.00
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	50.00
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	65.00
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	76.00
Flammability Rating	HB, V0, V1, V2	UL 94	HB
Tear Resistance	N/mm	ASTM D624	90.00

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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	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	
Extrusion	Unit	Value	
Drying temperatures	°C	90	
Drying time	hours	2	
Screw Comp. Ratio	-	1.5:1- 2.0:1	
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 Regrind	%	20	

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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	2.71
Across Flow	%	ASTM D955	2.43

Notes

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

