

Elastron

G101.D60.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	1.20			
Durometer Hardness, 3 sec	Shore D	ASTM D 2240	60.00			
Tensile Strength at Break	MPa	ASTM D412, Method A	17.00			
Mod.of Elasticity %100	MPa	ASTM D412, Method A	9.30			
Mod.of Elasticity %300	MPa	ASTM D412, Method A	11.40			
Elongation at break	%	ASTM D412, Method A	550.00			
Tear Resistance	N/mm	ASTM D624	99.00			
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ENGI-NEERING LIFE



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Ageing Tests						
Property	Unit	Standard	Value			
Ozone Resistance	Stressed	ASTM D 1149	No cracks			
	Bor	dable to				
	PE	-PP-EVA				
Processing						
Injection	Unit	Valu	e			
Drying temperatures	°C	-				
Drying time	hours	No ne	ed			
Rear Zone temp.	C°	145- 1	75			
Middle Zone temp.	°C	155- 1	85			
Front Zone temp.	C°	160- 1	90			
Nozzle Temperature	°C	175- 2	05			
Injection Speed	-	Low/ N	lod			
Injection Time	sec.	3- 5				
Injection Pressure	bar	10- 4	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	Valu	e			
Drying temperatures	°C	-				
Drying time	hours	No ne	ed			
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- 210				
Suggested Max Regrind	%	20				
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Additional Information
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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	1.16			
Across Flow	%	ASTM D955	1.10			
Notes						

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



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