ENGI- . NEERING LIFE



Elastron

G101.A50.B

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A soft , 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		

Automotive Specifications

GM/QK007000

Physical Properties						
Property	Unit	Standard	Value			
Density	g/cm³	ASTM D 792	1.17			
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	50.00			
Tensile Strength at Break	MPa	ASTM D412, Method A	5.00			
Mod.of Elasticity %100	MPa	ASTM D412, Method A	1.30			
Mod.of Elasticity %300	MPa	ASTM D412, Method A	2.10			
Elongation at break	%	ASTM D412, Method A	900.00			
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	18.00			
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	67.00			
Tear Resistance	N/mm	ASTM D624	27.00			
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Ageing Tests						
Property	Unit	Standard	Value			
Ozone Resistance	Stressed	ASTM D 1149	No cracks			
	Bon	dable to				
PE-PP-EVA						
Processing						
Injection	Unit	Valu	le			
Drying temperatures	°C	-				
Drying time	hours	No ne	ed			
Rear Zone temp.	°C	145- 1	75			
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- 4	10			
Hold Pressure	bar	5- 2	0			
Back Pressure	bar	5- 4	0			
Screw Speed	rpm	50-2	00			
Mold Temperature	°C	25- 50				
Screw Comp. ratio	-	1.5:1- 2	2.0:1			
Screw L/D ratio	-	18-2	24			
Residence time	-	1-2 sl	not			
Cushion size	mm	8				
Suggested Max Regrind	%	20				
Extrusion	Unit	Valu	le			
Drying temperatures	°C	-				
Drying time	hours	No ne	ed			
Screw Comp. Ratio	-	1.5:1- 2	2.0:1			
Screw L/D	-	18-3	30			
Feed Zone temp.	°C	150- 1	70			
Rear Zone temp.	°C	155- 1	75			
Center Zone temp.	°C	165- 1	85			
Front Zone temp.	°C	175- 2	205			
Head temp.	°C	180- 2	210			
Die temp.	°C	190- 2	210			
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	3.02		
Across Flow	%	ASTM D955	1.35		

Notes

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



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