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Rev.00002

Elastron

G601.A70.B

Volume resistivity

FR07.03.16 Rev.06

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A soft , black copper stabilised halogen free flame retardant (HFFR) SEBS based thermoplastic elastomer (TPE) compound with good UV resistance.

Ω.cm

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	1.14			
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	70.00			
Tensile Strength at Break	MPa	ASTM D412, Method A	4.50			
Mod.of Elasticity %100	MPa	ASTM D412, Method A	1.90			
Mod.of Elasticity %300	MPa	ASTM D412, Method A	2.70			
Elongation at break	%	ASTM D412, Method A	550.00			
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	14.00			
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	50.00			
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	77.00			
Flammability Rating	HB, V0, V1, V2	UL 94	V0			
Tear Resistance	N/mm	ASTM D624	25.00			
Electrical Properties						
Property	Unit	Standard	Value			
Dielectric Strength, KV/mm	KV/mm	ASTM D149	9.70			

ASTM D257

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Ageing Tests						
Property	Unit	Standard	Value			
Ozone Resistance	Stressed	ASTM D 1149	No cracks			
	Во	ndable to				
	PI	E-PP-EVA				
Processing						
Injection	Unit	Value				
Drying temperatures	°C	90				
Drying time	hours	2				
Rear Zone temp.	°C	145- 17	145- 175			
Middle Zone temp.	°C	155- 18	5			
Front Zone temp.	°C	160- 190				
Nozzle Temperature	°C	175- 205				
Injection Speed	-	Low/ Mod				
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- 3.0:1				
Screw L/D ratio	-	18- 24				
Residence time	-	1-2 shot				
Cushion size	mm	8				
Suggested Max Regrind	%	20				
Drying time	hours	2				
Screw Comp. Ratio	-	1.5:1- 3.0:1				
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	
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	1.40		
Across Flow	%	ASTM D955	0.92		
Notes					

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



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