

Elastron

G601.A70.N

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

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

GENERAL PROPERTIES		
Color	Natural	
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		
	Electric	al Properties			
Property	Unit	Standard	Value		
Dielectric Strength, KV/mm	KV/mm	ASTM D149	9.70		
Volume resistivity	Ω.cm	ASTM D257	2.31E+15		

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	Age	eing 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- 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.	2-4	2- 4		
Injection Pressure	bar	10- 40			
Hold Pressure	bar	5- 20			
Back Pressure	bar	5- 40	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- 17	155- 175		
Center Zone temp.	°C	165- 18	165- 185		
Front Zone temp.	°C	175- 20	5		
Head temp.	°C	180- 21	180- 210		
Die temp.	°C	190- 21	0		
Suggested Max Regrind	%	20			
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A	dditional Information

Elastron products are not compatible with PVC and Acetal.

Shrinkage	Unit	Standard	Value
Flow	%	ASTM D955	1.40
Across Flow	%	ASTM D955	0.92

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



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