



Elastron

V601.A80.N

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A soft , colorable copper stabilised halogen free flame retardant (HFFR) thermoplastic vulcanizate, TPV (EPDM/PP) with good UV - Ozone 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	1.12	
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	80.00	
Tensile Strength at Break	MPa	ASTM D412, Method A	6.00	
Mod.of Elasticity %100	MPa	ASTM D412, Method A	3.10	
Mod.of Elasticity %300	MPa	ASTM D412, Method A	4.30	
Elongation at break	%	ASTM D412, Method A	500.00	
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	23.00	
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	49.00	
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	69.00	
Flammability Rating	HB, V0, V1, V2	UL 94	Vo	
Tear Resistance	N/mm	ASTM D624	37.00	

Electrical Properties				
Property	Unit	Standard	Value	
Dielectric Strength, KV/mm	KV/mm	ASTM D149	15.50	
Dielectric Constant		ASTM D150	3.03	
Volume resistivity	Ω.cm	ASTM D257	3.74	

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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- 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	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	1.08
Across Flow	%	ASTM D955	0.98

Notes

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









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