

Elastron

V101.A55.N

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

A soft , colorable thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer family that offers good physical properties and chemical 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	0.97			
Durometer Hardness, 3 sec	Shore A	ASTM D 2240	55.00			
Tensile Strength at Break	MPa	ASTM D412, Method A	5.00			
Mod.of Elasticity %100	MPa	ASTM D412, Method A	1.40			
Mod.of Elasticity %300	MPa	ASTM D412, Method A	2.80			
Elongation at break	%	ASTM D412, Method A	600.00			
Compression Set	% at 23°C, 22 h	ASTM D 395, Type 2, Method B	17.00			
Compression Set	% at 70°C, 22 h	ASTM D 395, Type 2, Method B	32.00			
Compression Set	% at 100°C, 22 h	ASTM D 395, Type 2, Method B	45.00			
Flammability Rating	HB, V0, V1, V2	UL 94	НВ			
Tear Resistance	N/mm	ASTM D624	30.00			
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ENGI-NEERING LIFE



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Ageing Tests						
Property	perty Unit		Value			
Ozone Resistance	Stressed	ASTM D 1149	No cracks			
	Во	ndable to				
	P	E-PP-EVA				
Processing						
Injection	Unit	Value				
Drying temperatures	°C	90				
Drying time	hours	2				
Rear Zone temp.	°C	155- 175	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- 2.0:1				
Screw L/D ratio	-	18-24				
Residence time	-	1-2 shot				
Cushion size	mm	8				
Suggested Max Regrind	%	20				
Extrusion	Unit	Value				
Drying temperatures	°C	90				
Drying time	hours	2				
Screw Comp. Ratio	-	1.5:1- 2.0:1				
Screw L/D	-	18- 30				
Feed Zone temp.	°C	155- 165				
Rear Zone temp.	۵°	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	2.95			
Across Flow	%	ASTM D955	1.16			

Notes

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



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