

PRODUCT DESCRIPTION

A soft , black SEBS based thermoplastic elastomer (TPE) compound designed for use in medical applications.

GENERAL PROPERTIES

<b>Material Status</b>	Active
<b>Availability</b>	Europe North America Asia- Pasific Africa & Middle East
<b>Features</b>	Ozone Resistance Adhesion to Polyolefins Recyclable Compliant with RoHS Directive 2011/65/EU Compliant with USP Class VI Requirements
<b>Certification</b>	RoHS
<b>Appearance</b>	Black
<b>Form</b>	Pellets
<b>Processing Method</b>	Injection, Extrusion

Physical Properties

Property	Typical Value (English)	Typical Value (SI)	Test Method
<b>Density</b>	0.89 g/cm <sup>3</sup>	0,89 g/cm <sup>3</sup>	ASTM D 792
<b>Durometer Hardness, 3 sec (Shore A)</b>	70.00	70,00	ASTM D 2240
<b>Tensile Strength at Break</b>	1450 Psi	10,00 MPa	ASTM D412, Method A
<b>Mod.of Elasticity %100</b>	377 Psi	2,60 MPa	ASTM D412, Method A
<b>Mod.of Elasticity %300</b>	595 Psi	4,10 MPa	ASTM D412, Method A
<b>Elongation at break</b>	950.00 %	950,00 %	ASTM D412, Method A
<b>Compression Set (at 73 °F, 22 h)</b>	19.00 %	19,00 %	ASTM D 395, Type 2, Method B
<b>Compression Set (at 158 °F, 22 h)</b>	43.00 %	43,00 %	ASTM D 395, Type 2, Method B
<b>Compression Set (at 212 °F, 22 h)</b>	68.00 %	68,00 %	ASTM D 395, Type 2, Method B
<b>Tear Resistance</b>	256.95 lbf/in	45,00 N/mm	ASTM D624

Shrinkage

Property	Typical Value (English)	Typical Value (SI)	Test Method
<b>Flow</b>	2.41%	2.41%	ASTM D955
<b>Across Flow</b>	1.18%	1.18%	ASTM D955

### Ageing Tests

Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
Ozone Resistance-Stressed	No cracks	No cracks	ASTM D 1149

### Bondable to

PE-PP-EVA

### Additional Information

Elastron products are not compatible with PVC and Acetal.  
Regrinding level up to %20 is recommended with minimum property loss.

### Processing

Injection Molding	Typical Value (English)	Typical Value (SI)
Drying temperatures	-	°F
Drying time	No need	hours
Rear Zone temp.	293-347	°F
Middle Zone temp.	311-365	°F
Front Zone temp.	320-374	°F
Nozzle Temperature	347-401	°F
Injection Speed	Low/ Mod	-
Injection Time	3- 5	sec.
Injection Pressure	10- 40	bar
Hold Pressure	5- 20	bar
Back Pressure	5- 40	bar
Screw Speed	50- 200	rpm
Mold Temperature	77-122	°F
Screw Comp. ratio	1.5:1- 2.0:1	-
Screw L/D ratio	18- 24	-
Residence time	1- 2 shot	-
Cushion size	0.3120	inc
Suggested Max Regrind	20	%

Extrusion Molding	Typical Value (English)	Typical Value (SI)
Drying temperatures	-	°F
Drying time	No need	hours
Screw Comp. Ratio	1.5:1- 2.0:1	-
Screw L/D	18- 30	-
Feed Zone temp.	302-338	°F
Rear Zone temp.	311-347	°F
Center Zone temp.	329-365	°F
Front Zone temp.	347-401	°F
Head temp.	356-410	°F
Die temp.	374-410	°F
Suggested Max Regrind	20	%

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

