

PRODUCT DESCRIPTION

A soft , black SEBS based thermoplastic elastomer (TPE) compound specially designed for excellent adhesion to PA.

GENERAL PROPERTIES

<b>Material Status</b>	Active
<b>Availability</b>	Europe North America Asia- Pasific Africa & Middle East
<b>Features</b>	Designed for Excellent Adhesion to PA Insert Molding or 2K Molding Possible Designed for Soft Touch Applications Ozone Resistance Compliant with RoHS Directive 2011/65/EU
<b>Certification</b>	RoHS
<b>Appearance</b>	Black
<b>Form</b>	Pellets
<b>Processing Method</b>	Injection

Physical Properties

Property	Typical Value (English)	Typical Value (SI)	Test Method
<b>Density</b>	1.12 g/cm <sup>3</sup>	1,12 g/cm <sup>3</sup>	ASTM D 792
<b>Durometer Hardness, 3 sec (Shore A)</b>	30.00	30,00	ASTM D 2240
<b>Tensile Strength at Break</b>	334 Psi	2,30 MPa	ASTM D412, Method A
<b>Mod.of Elasticity %100</b>	73 Psi	0,50 MPa	ASTM D412, Method A
<b>Mod.of Elasticity %300</b>	174 Psi	1,20 MPa	ASTM D412, Method A
<b>Elongation at break</b>	600.00 %	600,00 %	ASTM D412, Method A
<b>Compression Set (at 73 °F, 22 h)</b>	9.00 %	9,00 %	ASTM D 395, Type 2, Method B
<b>Compression Set (at 158 °F, 22 h)</b>	30.00 %	30,00 %	ASTM D 395, Type 2, Method B
<b>Compression Set (at 212 °F, 22 h)</b>	66.00 %	66,00 %	ASTM D 395, Type 2, Method B
<b>Tear Resistance</b>	57.10 lbf/in	10,00 N/mm	ASTM D624

Shrinkage

Property	Typical Value (English)	Typical Value (SI)	Test Method
<b>Flow</b>	2.16%	2.16%	ASTM D955
<b>Across Flow</b>	1.41%	1.41%	ASTM D955

Flammability

Property	Typical Value (English)	Typical Value (SI)	Test Method
<b>Flammability Rating</b>	HB	HB	UL 94

**Ageing Tests**

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

**Bondable to**

PA

**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	194	°F	90	°C
Drying time	2	hours	2	hours
Rear Zone temp.	356-392	°F	180- 200	°C
Middle Zone temp.	374-410	°F	190- 210	°C
Front Zone temp.	401-428	°F	205- 220	°C
Nozzle Temperature	428-446	°F	220- 230	°C
Injection Speed	Mod/ High	-	Mod/ High	-
Injection Time	1- 4	sec.	1- 4	sec.
Injection Pressure	10- 40	bar	10- 40	bar
Hold Pressure	5- 20	bar	5- 20	bar
Back Pressure	5- 40	bar	5- 40	bar
Screw Speed	50- 200	rpm	50- 200	rpm
Mold Temperature	77-122	°F	25- 50	°C
Screw Comp. ratio	2.0:1- 4.0:1	-	2.0:1- 4.0:1	-
Screw L/D ratio	18- 24	-	18- 24	-
Residence time	1-2 shot	-	1-2 shot	-
Cushion size	0.3120	inc	8	mm
Suggested Max Re grind	20	%	20	%

# Notes

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

