G201.A67.B

PRODUCT DESCRIPTION

A soft , black SEBS based thermoplastic elastomer (TPE) compound that offers high temperature resistance and excellent compression set with superior UV resistance.

GENERAL PROPERTIES

Material Status	Active
Availability	Europe North America Asia- Pasific Africa & Middle East
Features	Designed for Applications Require High Temperature Resistance Excellent UV Resistance Excellent Compression Set Ozone Resistance Compliant with RoHS Directive 2011/65/EU
Certification	RoHS
Appearance	Black
Form	Pellets
Processing Method	Injection,Extrusion

Physical Properties

Property	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.20 g/cm³	1,20 g/cm³	ASTM D 792
Durometer Hardness, 3 sec (Shore A)	67.00	67,00	ASTM D 2240
Tensile Strength at Break	1015 Psi	7,00 MPa	ASTM D412, Method A
Mod.of Elasticity %100	348 Psi	2,40 MPa	ASTM D412, Method A
Mod.of Elasticity %300	667 Psi	4,60 MPa	ASTM D412, Method A
Elongation at break	750.00 %	750,00 %	ASTM D412, Method A
Compression Set (at 73 °F, 22 h)	15.00 %	15,00 %	ASTM D 395, Type 2, Method B
Compression Set (at 158 °F, 22 h)	29.00 %	29,00 %	ASTM D 395, Type 2, Method B
Compression Set (at 212 °F, 22 h)	54.00 %	54,00 %	ASTM D 395, Type 2, Method B
Tear Resistance	205.56 lbf/in	36,00 N/mm	ASTM D624

Shrinkage

Property	Typical Value (English)	Typical Value (SI)	Test Method
Flow	2.00%	2.00%	ASTM D955
Across Flow	1.05%	1.05%	ASTM D955

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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.

Injection Molding	Typical Value (English)		Typical Value (SI)	
Drying temperatures	194	°F	90	°C
Drying time	2	hours	2	hours
Rear Zone temp.	320-374	°F	160- 190	°C
Middle Zone temp.	338-392	°F	170- 200	°C
Front Zone temp.	347-401	°F	175- 205	°C
Nozzle Temperature	374-428	°F	190- 220	°C
Injection Speed	Mod/ High	-	Mod/ High	-
Injection Time	1- 3	sec.	1- 3	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	1.5:1- 3.0:1	-	1.5:1- 3.0:1	-
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 Regrind	20	%	20	%

Extrusion Molding	Typical Value (English)		Typical Value (SI)	
Drying temperatures	194	°F	90	°C
Drying time	2	hours	2	hours
Screw Comp. Ratio	1.5:1- 3.0:1	-	1.5:1- 3.0:1	-
Screw L/D	18- 30	-	18- 30	-
Feed Zone temp.	329-365	°F	165- 185	°C
Rear Zone temp.	338-374	°F	170- 190	°C
Center Zone temp.	356-392	°F	180- 200	°C
Front Zone temp.	374-428	°F	190- 220	°C
Head temp.	383-437	°F	195- 225	°C
Die temp.	401-437	°F	205- 225	°C
Suggested Max Regrind	20	%	20	%

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Notes

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