

PRODUCT DESCRIPTION

A soft , black SEBS based thermoplastic elastomer (TPE) compound that offers good physical properties and chemical resistance.

GENERAL PROPERTIES

<b>Material Status</b>	Active
<b>Availability</b>	Europe North America Asia- Pasific Africa & Middle East
<b>Features</b>	Good Mechanical Properties Good Chemical Resistance Ozone Resistance Adhesion to Polyolefins Compliant with RoHS Directive 2011/65/EU
<b>Certification</b>	RoHS
<b>Appearance</b>	Black
<b>Form</b>	Pellets
<b>Processing Method</b>	Injection

Automotive Specifications

GM/QK007000

Physical Properties

Property	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.17 g/cm <sup>3</sup>	1,17 g/cm <sup>3</sup>	ASTM D 792
Durometer Hardness, 3 sec (Shore A)	70.00	70,00	ASTM D 2240
Tensile Strength at Break	870 Psi	6,00 MPa	ASTM D412, Method A
Mod.of Elasticity %100	348 Psi	2,40 MPa	ASTM D412, Method A
Mod.of Elasticity %300	508 Psi	3,50 MPa	ASTM D412, Method A
Elongation at break	750.00 %	750,00 %	ASTM D412, Method A
Compression Set (at 73 °F, 22 h)	20.00 %	20,00 %	ASTM D 395, Type 2, Method B
Compression Set (at 158 °F, 22 h)	50.00 %	50,00 %	ASTM D 395, Type 2, Method B
Compression Set (at 212 °F, 22 h)	75.00 %	75,00 %	ASTM D 395, Type 2, Method B
Tear Resistance	199.85 lbf/in	35,00 N/mm	ASTM D624

Shrinkage

Property	Typical Value (English)	Typical Value (SI)	Test Method
Flow	1.98%	1.98%	ASTM D955
Across Flow	1.26%	1.26%	ASTM D955

Flammability

Property	Typical Value (English)	Typical Value (SI)	Test Method
Flammability Rating	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

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	-	°F	-	°C
Drying time	No need	hours	No need	hours
Rear Zone temp.	293-347	°F	145- 175	°C
Middle Zone temp.	311-365	°F	155- 185	°C
Front Zone temp.	320-374	°F	160- 190	°C
Nozzle Temperature	347-401	°F	175- 205	°C
Injection Speed	Low/ Mod	-	Low/ Mod	-
Injection Time	3- 5	sec.	3- 5	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- 2.0:1	-	1.5:1- 2.0:1	-
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	%

Notes

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