G300.A90.B

PRODUCT DESCRIPTION

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

GENERAL PROPERTIES

Material Status	Active
Availability	Europe North America Asia- Pasific Africa & Middle East
Features	Excellent UV Resistance Excellent Compression Set Ozone Resistance Compliant with RoHS Directive 2011/65/EU Adhesion to Polyolefins
Certification	RoHS
Appearance	Black
Form	Pellets
Processing Method	Injection

Physical Properties

Property	Typical Value (US)	Typical Value (SI)	Test Method
Density	1.04 g/cm³	1,04 g/cm³	ASTM D 792
Hardness, 3 sec (Shore A)	90.00	90,00	ASTM D 2240
Tensile Strength at Break	2031 Psi	14,00 MPa	ASTM D412, Method A
Mod.of Elasticity %100	624 Psi	4,30 MPa	ASTM D412, Method A
Mod.of Elasticity %300	1044 Psi	7,20 MPa	ASTM D412, Method A
Elongation at Break	650.00 %	650,00 %	ASTM D412, Method A
Compression Set (at 73 °F, 22 h)	29.00 %	29,00 %	ASTM D 395, Type 2, Method B
Compression Set (at 158 °F, 22 h)	59.00 %	59,00 %	ASTM D 395, Type 2, Method B
Compression Set (at 212 °F, 22 h)	81.00 %	81,00 %	ASTM D 395, Type 2, Method B
Tear Resistance	308.35 lbf/in	54,00 N/mm	ASTM D624

Shrinkage

Property	Typical Value (US)	Typical Value (SI)	Test Method
Flow	1.73%	1.73%	ASTM D955
Across Flow	1.67%	1.67%	ASTM D955

Flammability

Property	Typical Value (US)	Typical Value (SI)	Test Method
Flammability Rating	HB	HB	UL 94

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

Bondable to

PP

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 (US)		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	%

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Notes

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