

# G400.A90.B

#### **PRODUCT DESCRIPTION**

A hard , black unfilled SEBS based thermoplastic elastomer (TPE) compound which has very good physical properties and chemical resistance. This product is a good option when good abrasion resistance is required.

GENERAL PROPERTIES		
Material Status	Active	
Availability	Europe North America Asia- Pasific Africa & Middle East	
Features	Excellent Mechanical Properties Good Chemical Resistance Translucent in Natural Colored Form Ozone Resistance Compliant with RoHS Directive 2011/65/EU	
Certification	RoHS	
Appearance	Black	
Form	Pellets	
Processing Method	Injection	

Physical Properties					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Density	0.90 g/cm <sup>3</sup>	0,90 g/cm <sup>3</sup>	ASTM D 792		
Durometer Hardness, 3 sec (Shore A)	90.00	90,00	ASTM D 2240		
Tensile Strength at Break	1595 Psi	11,00 MPa	ASTM D412, Method A		
Mod.of Elasticity %100	798 Psi	5,50 MPa	ASTM D412, Method A		
Mod.of Elasticity %300	1030 Psi	7,10 MPa	ASTM D412, Method A		
Elongation at break	ak 600.00 %		ASTM D412, Method A		
Compression Set (at 73 °F, 22 h)	35.00 %	35,00 %	ASTM D 395, Type 2, Method B		
Compression Set (at 158 °F, 22 h)	60.00 %	60,00 %	ASTM D 395, Type 2, Method B		
Compression Set (at 212 °F, 22 h)	, <b>22 h)</b> 75.00 %		ASTM D 395, Type 2, Method B		
Tear Resistance	399.71 lbf/in	70,00 N/mm	ASTM D624		

Shrinkage					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Flow	1.83%		ASTM D955		
Across Flow	1.56% 1.56%		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						

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	-	°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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