

Elastron® G G301.A45.B

Styrene Ethylene Butylene Styrene Block Copolymer

Elastron USA, Inc.

Message:

A soft, black SEBS based thermoplastic elastomer (TPE) compound that offers good physical properties and chemical resistance.
Bondable to: PP, EVA, PE

General Information			
Features	Block Copolymer		
	Bondability		
	Good Chemical Resistance		
	Soft		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	2.9	%	
Across Flow	0.81	%	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	45		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	1.20	MPa	
300% Strain	2.00	MPa	
Tensile Strength (Break)	8.50	MPa	ASTM D412
Tensile Elongation (Break)	900	%	ASTM D412
Tear Strength	27.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	13	%	
70°C, 22 hr	39	%	
100°C, 22 hr	57	%	

Additional Information	Nominal Value	Test Method
Ozone Resistance - Stressed	No Cracks	ASTM D518

Injection	Nominal Value	Unit
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Suggested Max Regrind	20	%
Rear Temperature	145 to 175	°C
Middle Temperature	155 to 185	°C
Front Temperature	160 to 190	°C
Nozzle Temperature	175 to 205	°C
Mold Temperature	25.0 to 50.0	°C
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 to 170	°C
Cylinder Zone 2 Temp.	155 to 175	°C
Cylinder Zone 3 Temp.	165 to 185	°C
Cylinder Zone 4 Temp.	175 to 205	°C
Cylinder Zone 5 Temp.	180 to 210	°C
Die Temperature	190 to 210	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

