

# Elastron® G G500.A45.B.PS

Styrene Ethylene Butylene Styrene Block Copolymer

Elastron USA, Inc.

Message:

A soft, black SEBS based thermoplastic elastomer (TPE) compound designed for excellent adhesion to PS.  
Bondable to: PS

General Information			
Features	Block Copolymer		
	Bondability		
	Good Adhesion		
	Soft		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.6	%	
Across Flow	1.2	%	
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	0.800	MPa	
300% Strain	1.40	MPa	
Tensile Strength (Break)	2.00	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength	21.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	18	%	
70°C, 22 hr	80	%	
Additional Information	Nominal Value		Test Method
Ozone Resistance - Stressed	No Cracks		ASTM D518
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	20	%	

Rear Temperature	160 to 180	°C
Middle Temperature	170 to 190	°C
Front Temperature	180 to 200	°C
Nozzle Temperature	200 to 220	°C
Mold Temperature	40.0 to 60.0	°C

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