

# Elastollan® S95AN

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Corp. Thermoplastic Polyurethanes

## Message:

Elastollan® S95AN is specifically formulated for injection molding applications with short cycling time. It exhibits good hydrolytic stability, excellent abrasion resistance, toughness, good heat, oil, fuel, and solvent resistance. It has excellent damping characteristics and outstanding resistance to tear propagation. Elastollan® S95AN is supplied uncolored in diced form.

General Information			
Features	Good Abrasion Resistance		
	Good Tear Strength		
	Good Toughness		
	High Heat Resistance		
	Hydrolytically Stable		
	Solvent Resistant		
Appearance	Colorless		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	93		
Shore D	47		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	82.7	MPa	ASTM D412
Flexural Modulus (Injection Molded)	75.8	MPa	ASTM D790
Taber Abrasion Resistance	30.0	mg	ASTM D1044
Abrasion - DIN	30	mm <sup>3</sup>	DIN 53516
Softening Point - DMA	142	°C	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	15.9	MPa	
300% Strain	33.1	MPa	
Tensile Strength	45.5	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength <sup>1</sup>	166	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	25	%	

70°C, 22 hr	45	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-22.0	°C	Internal Method
Vicat Softening Temperature	145	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	2.0 to 3.0	hr	
Suggested Max Moisture	0.030	%	
Rear Temperature	190 to 220	°C	
Middle Temperature	190 to 220	°C	
Front Temperature	190 to 220	°C	
Nozzle Temperature	210 to 225	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	2.0 to 3.0	hr	
Cylinder Zone 1 Temp.	170 to 210	°C	
Cylinder Zone 3 Temp.	170 to 210	°C	
Cylinder Zone 5 Temp.	170 to 210	°C	
Adapter Temperature	200 to 220	°C	
Die Temperature	195 to 215	°C	
NOTE			
1.	Die C		

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#### Recommended distributors for this material

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