Elastollan® S90AN

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Corp. Thermoplastic Polyurethanes

Message:

Elastollan® S90AN 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® S90AN 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/cm³	ASTM D792		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore A)	90		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (Injection Molded)	45.5	МРа	ASTM D412		
Flexural Modulus (Injection Molded)	45.5	MPa	ASTM D790		
Taber Abrasion Resistance	25.0	mg	ASTM D1044		
Abrasion - DIN	30	mm³	DIN 53516		
Softening Point - DMA	118	°C	Internal Method		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress			ASTM D412		
100% Strain	12.4	МРа			
300% Strain	26.9	МРа			
Tensile Strength	42.7	MPa	ASTM D412		
Tensile Elongation (Break)	540	%	ASTM D412		
Tear Strength ¹	145	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	-31.0	°C	Internal Method
Vicat Softening Temperature	130	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	100 to 110	°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	100 to 110	°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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

