Elastollan® S85AN

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Corp. Thermoplastic Polyurethanes

Message:

Elastollan® S85AN 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® S85AN is rated UL-94 HB in vertical flame test for wall thickness of 0.95 mm. Elastollan® S85AN 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	1.22	g/cm³	ASTM D792		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore A)	84		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (Injection Molded)	19.3	MPa	ASTM D412		
Flexural Modulus (Injection Molded)	24.1	MPa	ASTM D790		
Taber Abrasion Resistance	25.0	mg	ASTM D1044		
Abrasion - DIN	25	mm³	DIN 53516		
Softening Point - DMA	116	°C	Internal Method		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress			ASTM D412		
100% Strain	8.96	МРа			
300% Strain	19.3	МРа			
Tensile Strength	42.1	МРа	ASTM D412		
Tensile Elongation (Break)	600	%	ASTM D412		
Tear Strength ¹	110	kN/m	ASTM D624		
Compression Set			ASTM D395B		
23°C, 22 hr	25	%			
70°C, 22 hr	35	%			

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-31.0	°C	Internal Method
Vicat Softening Temperature	110	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating (0.950 mm)	НВ		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	2.0 to 3.0	hr	
Suggested Max Moisture	0.030	%	
Extrusion	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	2.0 to 3.0	hr	
Cylinder Zone 1 Temp.	160 to 200	°C	
Cylinder Zone 3 Temp.	160 to 200	°C	
Cylinder Zone 5 Temp.	160 to 200	°C	
Adapter Temperature	175 to 200	°C	
Die Temperature	175 to 205	°C	
NOTE			
1.	Die C		

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