

Elastollan® S-90AN

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Corp. Thermoplastic Polyurethanes

Product Description

Elastollan® S series of products are polyester-based thermoplastic polyurethanes that exhibit good hydrolytic stability. They also exhibit good oil, fuel and solvent resistance. These products can be injection molded, blow molded and extruded. All grades should be dried before processing. Elastollan® products can be stored for up to 1 year in their original container. Containers should be stored in a cool, dry area.

Products with an N designation do not contain hydrolytic stabilizers.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Fuel Resistant	• Oil Resistant	• Solvent Resistant
Forms	• Granules		
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792

Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance 1000 Cycles, 1000 g, H-18 Wheel	25.0	mg	ASTM D1044

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	11.0	MPa	
300% Strain	20.0	MPa	
Tensile Strength (Yield)	39.0	MPa	ASTM D412
Tensile Elongation (Break)	540	%	ASTM D412
Elongation Set After Break	55	%	ASTM D412
Tear Strength ²	128	kN/m	ASTM D624

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	90 to 94		
Shore D	39 to 43		

Injection	Nominal Value	Unit
Drying Temperature	79.4 to 90.6	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Suggested Max Re grind	30	%
Rear Temperature	191	°C
Middle Temperature	196	°C
Front Temperature	202	°C
Nozzle Temperature	204	°C
Processing (Melt) Temp	193 to 210	°C
Mold Temperature	21.1 to 43.3	°C
Injection Pressure	3.45 to 10.3	MPa
Back Pressure	0.517 to 1.03	MPa
Screw Speed	30 to 120	rpm
Screw L/D Ratio	16.0:1.0 to 20.0:1.0	
Screw Compression Ratio	2.0:1.0 to 3.0:1.0	

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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