

# Elastollan® C75AW

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Corp. Thermoplastic Polyurethanes

## Message:

Elastollan® C75AW is a polyester-based thermoplastic polyurethane (TPU) containing a plasticizer. It exhibits excellent abrasion resistance and toughness, good hydrolytic stability, good heat, oil, fuel and solvent resistance. It has excellent damping characteristics and outstanding resistance to tear propagation. Elastollan® C75AW is supplied uncolored in pellet form.

General Information	
Features	Fuel Resistant
	Good Abrasion Resistance
	Good Toughness
	High Heat Resistance
	Hydrolytically Stable
	Oil Resistant
	Solvent Resistant
Appearance	Colorless
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	74		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	20.7	MPa	ASTM D412
Flexural Modulus (Injection Molded)	10.3	MPa	ASTM D790
Taber Abrasion Resistance	40.0	mg	ASTM D1044
Abrasion - DIN	10	mm <sup>3</sup>	DIN 53516
Softening Point - DMA	100	°C	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	5.17	MPa	
300% Strain	11.0	MPa	
Tensile Strength	28.3	MPa	ASTM D412
Tensile Elongation (Break)	710	%	ASTM D412
Tear Strength <sup>1</sup>	82.3	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	25	%	
70°C, 22 hr	40	%	

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-46.0	°C	Internal Method
Vicat Softening Temperature	77.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.030	%	
Rear Temperature	170 to 210	°C	
Middle Temperature	170 to 210	°C	
Front Temperature	170 to 210	°C	
Nozzle Temperature	200 to 210	°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

