

# Elastollan® C 70 A 10 P 000

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

## Message:

Thermoplastic Polyester-Polyurethane with excellent mechanical properties and chemical resistance, outstanding wear resistance, high tear and tensile strength, good damping characteristic and high resilience performance.

General Information			
Features	High tensile strength		
	Good tear strength		
	Good chemical resistance		
	Good wear resistance		
	Elastic		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm <sup>3</sup>	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	70		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	35.0	mm <sup>3</sup>	ISO 4649-A
Head Temperature	165 - 185	°C	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	40.0	MPa	DIN 53504-S2
Tensile Elongation (Break)	780	%	DIN 53504-S2
Tear Strength <sup>1</sup>	44	kN/m	ISO 34-1
Additional Information			
The plaques are manufactured by injection moulding from pre-dried granules (water content less 0,02%). Test paques are aged 20 hrs at 100°C.Specimens are cut from test plaques. The test conditions: 23°C ± 2°C and 50% ± 6% rel. humidity.			
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40.0	°C	
Rear Temperature	170 - 190	°C	
Middle Temperature	180 - 210	°C	
Front Temperature	200 - 215	°C	
Nozzle Temperature	205 - 220	°C	
Processing (Melt) Temp	205 - 220	°C	
Mold Temperature	20.0 - 40.0	°C	

Injection Rate	Slow	
Back Pressure	5.00 - 15.0	MPa
Extrusion	Nominal Value	Unit
Drying Temperature	70.0 - 80.0	°C
Drying Time	2.0 - 3.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	150 - 170	°C
Cylinder Zone 2 Temp.	160 - 180	°C
Cylinder Zone 3 Temp.	165 - 185	°C
Cylinder Zone 4 Temp.	165 - 185	°C
Adapter Temperature	165 - 185	°C
Die Temperature	165 - 185	°C
NOTE		

1. Method B, right-angle specimen (cut)

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

