

Elastollan® C 90 A 15 HPM 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, high heat resistance and improved setting properties.

General Information			
Features	High tensile strength		
	Good tear strength		
	Good chemical resistance		
	Good wear resistance		
	Heat resistance, high		
	Elastic		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	91		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	45.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504-S2
20% strain	4.00	MPa	DIN 53504-S2
100% strain	8.00	MPa	DIN 53504-S2
300% strain	13.0	MPa	DIN 53504-S2
Tensile Stress (Yield)	45.0	MPa	DIN 53504-S2
Tensile Elongation (Break)	600	%	DIN 53504-S2
Tear Strength ¹	80	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	20	%	ISO 815
70°C, 24 hr	29	%	ISO 815
100°C, 24 hr	43	%	ISO 815
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	152	°C	ISO 306/A120
Injection	Nominal Value	Unit	

Hopper Temperature	40	°C
Rear Temperature	195 - 210	°C
Middle Temperature	200 - 220	°C
Front Temperature	210 - 225	°C
Nozzle Temperature	215 - 230	°C
Processing (Melt) Temp	210 - 225	°C
Mold Temperature	20 - 40	°C
Injection Rate	Slow	
Back Pressure	5.00 - 15.0	MPa
Screw L/D Ratio	18.0:1.0 to 22.0:1.0	
Screw Compression Ratio	2.0 : 1.0 - 3.0 : 1.0	
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160 - 180	°C
Cylinder Zone 2 Temp.	170 - 190	°C
Cylinder Zone 3 Temp.	180 - 200	°C
Cylinder Zone 4 Temp.	195 - 215	°C
Adapter Temperature	200 - 220	°C
Die Temperature	195 - 215	°C
NOTE		

- Method B, right-angle specimen (cut)

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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

