

Elastollan® 685 A

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Transparent, Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, good damping and resilience performance.

Typical applications

Decorative parts and damping elements for the sport shoe industry, Ski tips, tubes and Films.

General Information			
Features	Good Wear Resistance		
	Resilient		
Uses	Decorative Parts		
	Film		
	Footwear		
	Sporting Goods		
	Tubing		
Appearance	Clear/Transparent		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	86		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	40.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	2.80	MPa	
100% Strain	5.50	MPa	
Tensile Stress			DIN 53504
Yield ¹	40.0	MPa	
Yield	50.0	MPa	
Tensile Elongation			DIN 53504
Break ²	650	%	
Break	600	%	
Tear Strength ³	75	kN/m	ISO 34-1

Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	45	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	175 to 230	°C	
Mold Temperature	20.0 to 50.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	175 to 220	°C	
NOTE			
1.	after storage in water for 21 days at 80°C		
2.	after storage in water for 21 days at 80°C		
3.	Method Bb, Angle (Nicked)		

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