

Elastollan® B 95 A 11 FC

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

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

General suitability for food contact related applications in FDA and EU regulated markets (please see food contact information)

General Information			
Features	Flexibility at low temperatures		
	High tensile strength		
	Good tear strength		
	Good wear resistance		
	Compliance of Food Exposure		
	Elastic		
Agency Ratings	FDA Food Exposure, Not Rated		
	European food contact, not rated		
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 D, 3 sec)	53		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	30.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504-S2
20% strain	7.00	MPa	DIN 53504-S2
100% strain	10.0	MPa	DIN 53504-S2
300% strain	22.0	MPa	DIN 53504-S2
Tensile Stress (Yield)	55.0	MPa	DIN 53504-S2
Tensile Elongation (Break)	550	%	DIN 53504-S2
Tear Strength ¹	100	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	30	%	ISO 815
70°C, 24 hr	40	%	ISO 815
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength		ISO 179
-30°C	No Break	ISO 179
23°C	No Break	ISO 179
Injection	Nominal Value	Unit
Drying Temperature	80 - 90	°C
Drying Time	2.0 - 3.0	hr
Suggested Max Moisture	0.020	%
Hopper Temperature	40	°C
Rear Temperature	210 - 220	°C
Middle Temperature	215 - 225	°C
Front Temperature	220 - 230	°C
Nozzle Temperature	220 - 230	°C
Processing (Melt) Temp	220 - 230	°C
Mold Temperature	20 - 40	°C
Injection Rate	Slow	
Back Pressure	5.00 - 15.0	MPa
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	175 - 195	°C
Cylinder Zone 2 Temp.	185 - 205	°C
Cylinder Zone 3 Temp.	195 - 215	°C
Cylinder Zone 4 Temp.	205 - 220	°C
Adapter Temperature	210 - 230	°C
Die Temperature	195 - 215	°C
NOTE		

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

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