



Elastollan® 1185 A 15 000

BASF Polyurethanes GmbH - Thermoplastic Polyurethane Elastomer (Polyether)

Friday, December 2, 2022

General Information

Product Description

Thermoplastic Polyether-Polyurethane with outstanding hydrolysis resistance, low temperature flexibility and high resistance to micro-organisms.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Hydrolysis Resistant	• Low Temperature Flexibility	• Microbe Resistant
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	25.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (20% Strain)	3.00	MPa	DIN 53504-S2
Tensile Stress (100% Strain)	7.00	MPa	DIN 53504-S2
Tensile Stress (300% Strain)	12.0	MPa	DIN 53504-S2
Tensile Stress			DIN 53504-S2
Yield	45.0	MPa	
Yield ²	32.0	MPa	
Tensile Elongation			DIN 53504-S2
Break	600	%	
Break ²	600	%	
Tear Strength ³	70.0	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		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	87		ISO 7619
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0 to 3.0	hr
Suggested Max Moisture	0.020	%
Hopper Temperature	40	°C

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Injection	Nominal Value	Unit
Rear Temperature	205 to 215	°C
Middle Temperature	210 to 225	°C
Front Temperature	215 to 225	°C
Nozzle Temperature	220 to 230	°C
Processing (Melt) Temp	215 to 225	°C
Mold Temperature	20 to 40	°C
Injection Rate	Slow	
Back Pressure	5.00 to 15.0	MPa

Notes

¹ Typical properties: these are not to be construed as specifications.

² after storage in water at 80°C for 42 days

³ Method Bb, Angle (Nicked)

