

Elastollan® 1185 A 15 000

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

Message:

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

General Information			
Features	Flexibility at low temperatures		
	Antimicrobial		
	Hydrolysis resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	87		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	25.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504-S2
20% strain	3.00	MPa	DIN 53504-S2
100% strain	7.00	MPa	DIN 53504-S2
300% strain	12.0	MPa	DIN 53504-S2
Tensile Stress			DIN 53504-S2
Yield	45.0	MPa	DIN 53504-S2
Yield ¹	32.0	MPa	DIN 53504-S2
Tensile Elongation (Break)	600	%	DIN 53504-S2
Tear Strength ²	70	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	ISO 815
70°C, 24 hr	45	%	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
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
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	205 - 215	°C
Middle Temperature	210 - 225	°C
Front Temperature	215 - 225	°C
Nozzle Temperature	220 - 230	°C
Processing (Melt) Temp	215 - 225	°C
Mold Temperature	20 - 40	°C
Injection Rate	Slow	
Back Pressure	5.00 - 15.0	MPa

NOTE

1. after storage in water at 80°C for 42 days
2. Method B, right-angle specimen (cut)

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