

Elastollan® 1185 A

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyether Polyurethane Elastomers with outstanding hydrolysis resistance, low temperature flexibility and resistance to micro-organisms.
Typical applications
Cable jackets, plugs and terminations, spiral tubing, Films, ski-boot shells, ear tags, technical mouldings like mining screens, railway pads, seals.

General Information	
UL YellowCard	E140250-222870
Features	Hydrolysis Resistant
	Low Temperature Flexibility
	Microbe Resistant
Uses	Cable Jacketing
	Film
	Mining Applications
	Molded Ear Tags
	Plugs
	Seals
	Sporting Goods
	Tubing
Processing Method	Blow Molding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 7619
Shore A, 3 sec	87		
Shore D, 3 sec	36		
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
20% Strain	2.50	MPa	
100% Strain	6.00	MPa	
300% Strain	10.0	MPa	
Tensile Stress			DIN 53504

Yield ¹	32.0	MPa	
Yield	45.0	MPa	
Tensile Elongation ² (Break)	600	%	DIN 53504
Tear Strength ³	70	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		
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	170 to 240	°C	
Mold Temperature	20.0 to 70.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 220	°C	
NOTE			
1.	after storage in water at 80°C for 42 days		
2.	after storage in water at 80°C for 42 days		
3.	Method Bb, Angle (Nicked)		

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