

Elastollan® 1180 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	E140250-222868		
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	1.11	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	80		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
20% Strain	2.00	MPa	
100% Strain	4.50	MPa	
300% Strain	8.00	MPa	
Tensile Stress			DIN 53504
Yield ¹	30.0	MPa	
Yield	45.0	MPa	

Tensile Elongation			DIN 53504
Break ²	700	%	
Break	650	%	
Tear Strength ³	55	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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