

Elastollan® 1154 D

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	E140250-100196786
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	1.17	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	53		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	150	MPa	ISO 527-2
Abrasion Loss	20.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	11.0	MPa	
100% Strain	17.0	MPa	
300% Strain	38.0	MPa	
Tensile Stress			DIN 53504
Yield ¹	35.0	MPa	

Yield	50.0	MPa	
Tensile Elongation ² (Break)	450	%	DIN 53504
Tear Strength ³	150	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	40	%	
70°C, 24 hr	50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	18	kJ/m ²	
23°C	No Break		
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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