

Elastollan® 1254 D U

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

Message:

Highly transparent thermoplastic Polyether Polyurethane Elastomer with good hydrolysis resistance, low temperature flexibility and resistance to micro-organismus

Typical applications

Ski boot shells, ski components, Films.

General Information			
Additive	UV Stabilizer		
Features	Good UV Resistance		
	Hydrolysis Resistant		
	Low Temperature Flexibility		
	Microbe Resistant		
Uses	Film		
	Sporting Goods		
Appearance	Clear/Transparent		
Processing Method	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)	57		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	180	MPa	ISO 527-2
Abrasion Loss	30.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	16.5	MPa	
100% Strain	23.0	MPa	
300% Strain	35.0	MPa	
Tensile Stress			DIN 53504
Yield ¹	53.0	MPa	
Yield	60.0	MPa	
Tensile Elongation			DIN 53504
Break ²	520	%	
Break	470	%	

Tear Strength ³	170	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	42	%	
70°C, 24 hr	54	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	14	kJ/m ²	
23°C	No Break		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	215 to 240	°C	
Mold Temperature	20.0 to 70.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	200 to 230	°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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