

Elastollan® 1147 D FHF

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyether Polyurethane special products, halogen-free flame retardant.

Typical applications

Cable jackets, Films

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
Uses	Cable Jacketing		
	Film		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 7619
Shore A, 3 sec	94		
Shore D, 3 sec	48		
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	60.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	7.00	MPa	
100% Strain	9.00	MPa	
300% Strain	10.0	MPa	
Tensile Stress			DIN 53504
Yield ¹	7.00	MPa	
Yield	13.0	MPa	
Tensile Elongation			DIN 53504
Break ²	270	%	
Break	400	%	
Tear Strength ³	60	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	38	%	
70°C, 24 hr	50	%	
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength		ISO 179
-30°C	21	kJ/m ²
23°C	No Break	
Extrusion	Nominal Value	Unit
Melt Temperature	175 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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