



Elastollan® 1154 D FHF

BASF Polyurethanes GmbH - Thermoplastic Polyurethane Elastomer (Polyether)

Wednesday, April 15, 2020

General Information

Product Description

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

Typical applications

Cable jackets, Films

General

Material Status	• Commercial: Active
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free
Uses	• Cable Jacketing • Film
Processing Method	• Extrusion

ASTM and ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	160	MPa	ISO 527-2
Abrasion Loss	30.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (20% Strain)	13.0	MPa	DIN 53504
Tensile Stress (100% Strain)	19.0	MPa	DIN 53504
Tensile Stress (300% Strain)	33.0	MPa	DIN 53504
Tensile Stress			DIN 53504
Yield	30.0	MPa	
Yield ²	20.0	MPa	
Tensile Elongation			DIN 53504
Break	400	%	
Break ²	400	%	
Tear Strength ³	110	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	30	%	
70°C, 24 hr	45	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.0	kJ/m ²	
23°C	50	kJ/m ²	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	58		ISO 7619
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
-- ⁴	V-2		
--	V-0		

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Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	175 to 220	°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² after storage in water at 80°C for 42 days

³ Method Bb, Angle (Nicked)

⁴ according to wall section