

Elastollan® 1154 D FHF

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

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

Typical applications
Cable jackets, Films

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Elastollan (English) • Technical Datasheet (English)
UL Yellow Card ²	• E140250-100033927 • E140250-222866
Search for UL Yellow Card	• BASF Polyurethanes GmbH • Elastollan®
Availability	• Europe
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free
Uses	• Cable Jacketing • Film
Processing Method	• Extrusion

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 527-1
Abrasion Loss	30.0 mm ³	ISO 4649-A

Elastomers	Nominal Value Unit	Test Method
Tensile Stress		DIN 53504
20% Strain	13.0 MPa	
100% Strain	19.0 MPa	
300% Strain	33.0 MPa	
Tensile Stress		DIN 53504
Yield	30.0 MPa	
Yield ⁴	20.0 MPa	
Tensile Elongation (Break)	400 %	DIN 53504
Tear Strength ⁵	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
-- ⁶	V-2	
--	V-0	

Extrusion	Nominal Value Unit
Melt Temperature	175 to 220 °C



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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ after storage in water at 80°C for 42 days

⁵ Method Bb, Angle (Nicked)

⁶ according to wall section



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Where to Buy

Supplier

BASF Polyurethanes GmbH

, Germany

Telephone: +49-5443-12-0

Web: <http://www.polyurethanes.basf.eu/pu/solutions/en/>

Distributor

Channel Prime Alliance

Telephone: 800-247-8038

Web: <http://www.channelpa.com/>

Availability: North America

Distrupol Ltd

Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.

Telephone: 08452003040

Web: <http://www.distrupol.com/>

Availability: Denmark, Finland, Ireland, Norway, Sweden, United Kingdom

