

# Elastollan® 1185 A10 FHF

## Marketing Card



**Target Application** – Jacketing for wire and cables.

### Key Value Offerings

Suitable for **VW-1** and **FT-1** cables.

**Halogen-free** flame retardant

Hydrolysis and micro-organisms resistance, **low temperature flexibility** ( -40°C)

### Best End-Use Markets and Applications

Sensor Instrumentation Control Automotive EV Charging Industrial Drag

### Certification and Standards

**UL94 V-0** at 0.8, 1.5 and 3.2 mm jacket thickness

REACH, RoHS and IMDS

### Pricing and Availability

 – see Price List.

Samples quantities are available

Due to high demand, forecast recommended for commercial volumes.

### General Product Information

Property	Value	Unit	Test Method
Density	1.23	g/cm <sup>3</sup>	ISO 1183-1-a
Hardness	89	Shore A	DIN ISO 7619-1 (3s)
Tensile strength	35	MPa	DIN EN ISO 527
Elongation at break	600	%	DIN EN ISO 527
Tear strength	60	N/mm	DIN ISO 34-1Bb

Flat films (thickness 1,6mm) are manufactured by extrusion from pre-dried granules (water content less 0,02%). The flat films are aged 20 hrs at 100°C. Specimens are cut from flat films. Test conditions: 23°C ± 2°C and 50% ± 6% rel. humidity.

### Rolling Stock Applications - Fire Protection on Railway Vehicles

#### DIN EN 45545-2 (2013-08) R22/R23

Property	Value	Unit	Test Method
Smoke Density	627	Ds max.*	EN ISO 5659-2: 25 kWm <sup>-2</sup>
Toxicity	0.36	CIT <sub>NLP</sub>	NF X70-100-1 and -2
Oxygen Volume (%)	24	%*	EN ISO 4589-2: OI
Rating R22/23	No Rating	--	--

\* measured by 2 mm film

# Elastollan® 1185 A10 FHF

## Marketing Card



### Flammability and Smoke Density/Toxicity

Property	Value	Unit	Test Method
Flammability (UL94-V)	V-0	0.8, 1.5, 3.2 mm	UL94 - V
Conventional Toxicity Index (smoke gas toxicity)	35.5	ITC at 600°C	NFX 70-100, Parts 1+2: 2006-04
	46.0	ITC at 800°C	
Smoke Density Flaming mode	233	Ds max.	NF X 10-702, Part 1: 1995-11
	566	VOF4	
Smoke Density Cube test on power cable	27	Transmission <sup>(1)</sup> (%)	IEC 61034
Acidity of gases during combustion	8.9	pH - value	DIN EN 50267-2-2: 1999
	23.4	Conductivity (µS/mm)	
Determination of burning behaviour by oxygen index	24	LOI - Limiting Oxygen Index [%]*	ISO 4589 Part2: 2006-06)
Saponification number	176	--	BASF Method
	88	--	ISO 50396

(1) Same cable construction \* measured by 1.6mm film

### BASF Contact:

Christopher A. Bradlee  
 Market Development Manager - Performance Materials  
 Phone: +1 (734) 324-6867 Mobile: +1 (734) 512-3527  
 Email: christopher.bradlee@basf.com

THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH, AND ARE BASED ON BASF'S CURRENT KNOWLEDGE AND EXPERIENCE. THEY ARE PROVIDED FOR GUIDANCE ONLY, AND DO NOT CONSTITUTE THE AGREED CONTRACTUAL QUALITY OF THE PRODUCT OR A PART OF BASF'S TERMS AND CONDITIONS OF SALE. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE OF THE PRODUCT, BASF RECOMMENDS THAT THE READER CARRY OUT ITS OWN INVESTIGATIONS AND TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR ITS PARTICULAR PURPOSE PRIOR TO USE. IT IS THE RESPONSIBILITY OF THE RECIPIENT OF PRODUCT TO ENSURE THAT ANY PROPRIETARY RIGHTS AND EXISTING LAWS AND LEGISLATION ARE OBSERVED. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH HEREIN, OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS.** ANY DESCRIPTIONS, DESIGNS, DATA AND INFORMATION GIVEN IN THIS PUBLICATION MAY CHANGE WITHOUT PRIOR INFORMATION. THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTIONS, DESIGNS, DATA OR INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT THE READER'S RISK.