

## **Technical Data Sheet**

Type: ESTANE® EV 85AT8 NAT 01 is a non-halogen, flame retardant, aromatic polyether-based thermoplastic

Main application: Extrusion

Physical Properties	Value (Metric)	Unit	Test Method
Hardness	A/1: 83	Shore A	ISO 868
Tensile strength	51	MPa	VDE282 part 10
50% modulus	4.4	MPa	VDE282 part 10
100% modulus	5.5	MPa	VDE282 part 10
300% modulus	12.2	MPa	VDE282 part 10
Elongation	501	%	VDE282 part 10
Tear Resistance (Nicked)	45	kN/m	ISO 34-1B
Density	1.146	g/cm³	ISO 1183
Vicat A50	77.7	°C	ISO 306
Abrasion resistance	40	mm³	ISO 4649-A
Vertical burn test	V2	/	UL-94
L.O.I.	24.6	%	ASTM D-2863

<sup>\*</sup> These are typical values & should not be used for establishing specifications.

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<sup>\*</sup> Based on extruded strips



## **Material Preparation**

- Prior to processing, ESTANE<sup>®</sup> EV 85AT8 NAT 01 be dried at 100°C for 3-4 hours.
- It is recommended to dry the material in a dehumidifying type dryer. Target dew point should be -40°C.
- Depending on the applied processing technique, the maximum moisture level should be 0.02%
- ESTANE® EV 85AT8 NAT 01 can be processed on any conventional extruder.

## Recommended Starting **EXTRUSION** Temperature Profile:

	°C
Zone 1	195
Zone 2	190
Zone 3	185
Zone 4	180
Adapter (5)	180
Die Zone 1 (6)	170
Die Zone 2	170

## **Storage**

**ESTANE**<sup>®</sup> **EV 85AT8 NAT 01** must be stored in a cool (15-25°C) and dry place. Standard Practice of consuming resin first-in first-out basis should be employed. Contact your account manager for specific information related to shelf life.

For further information refer to Lubrizol Advanced Materials processing guides.

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