

**Product Data Sheet****AVALON® 85 AM**

Polyester-based Thermoplastic Polyurethane

PRODUCT DESCRIPTION

AVALON® 85 AM is a polyester-based Thermoplastic Polyurethane (TPU) for injection molding applications. Key features are abrasion resistance, excellent surface definition and durability.

APPLICATIONS

Thick wall technical parts and top-pieces.

TYPICAL PHYSICAL PROPERTIES

Properties	Key	NORM	Value	Unit
Hardness (after 3 sec.)	M	ISO 7619	85	Shore A
Density	M	ISO 1183-1	1,21	g/cm ³
Tensile strength	M	DIN 53504	40	MPa
Elongation @ break	M	DIN 53504	550	%
Tensile stress @ 100% elongation	M	DIN 53504	5,8	MPa
Tensile stress @ 300% elongation	M	DIN 53504	9,5	MPa
Tear strength	M	ISO 34-1	60	N/mm

M = Injection molded parts to meet DIN & ASTM requirements. Parts tempered for 20 hrs @ 100 °C prior to testing



HEALTH & SAFETY ADVICE

Before undertaking any trials with this product it is essential that all personnel are aware of the necessary precautions that must be taken. These are detailed in the relevant Material Safety Data Sheet (MSDS), which will be provided by Huntsman.

SUPPLY & STORAGE

AVALON® 85 AM is supplied in bags, drums or octabins. Please contact your customer service to confirm this.

AVALON® 85 AM has a minimum expected shelf life of 12 months after shipment date. The product should be stored in a dry and cool place in the manufacturer's original packaging.

MATERIAL PREPARATION

AVALON® 85 AM is supplied pre-dried, however to ensure trouble-free processing it is preferable to dry before use.

The recommended drying conditions are:

- 4 hours at 60°C in dehumidified air
- Dew point: -30°C

PROCESSING PARAMETERS

Processing Parameter: Injection Molding

Temperature Profile	°C
Feed Zone:	25 - 40
Barrel:	185 - 195
Nozzle:	195 - 205
Mold:	20 - 50

For further information, please contact your nearest sales office: http://www.huntsman.com/PU_customer_service

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