

**Product Data Sheet****AVALON® 80 AEU JS**

Polyester-based Thermoplastic Polyurethane

PRODUCT DESCRIPTION

AVALON® 80 AEU JS is a polyester-based Thermoplastic Polyurethane (TPU) for injection moulding and part of the AVALON Perform Range. Key features are plasticizer-free, improved UV stability, abrasion resistance, excellent surface definition and durability.

APPLICATIONS

Casual and fashion footwear and sports footwear.

TYPICAL PHYSICAL PROPERTIES

Properties	Key	NORM	Value	Unit
Hardness (after 3 sec.)	M	ISO 7619	80	Shore A
Hardness (after 3 sec.)	M	ISO 7619	30	Shore D
Density	M	ISO 1183-1	1.22	g/cm ³
Tensile strength	M	DIN 53504	30	MPa
Elongation @ break	M	DIN 53504	700	%
Tensile stress @ 100% elongation	M	DIN 53504	5	MPa
Tensile stress @ 300% elongation	M	DIN 53504	10	MPa
Tear strength	M	ISO 34-1	60	N/mm
Abrasion	M	ISO 4649	35	mm ³
Compression set at 70h @ 23°C	M	ISO 815	25	%

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® 80 AEU JS is supplied in bags, drums or octabins. Please contact your customer service to confirm this.

AVALON® 80 AEU JS 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® 80 AEU JS is supplied pre-dried, however to ensure trouble-free processing it is preferable to dry before use. The recommended drying conditions are:

- 3 hours at 80-90°C in circulating air
- 3 hours at 70-80°C in dehumidified air
- Dew point: -30°C

PHYSICAL FORM

Type: Transparent pellets

PROCESSING PARAMETERS

Processing Parameter: Injection Molding

Temperature Profile	°C
Feed Zone:	25 - 40
Barrel:	180 - 200
Nozzle:	180 - 190
Mold:	20 - 50

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

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