

**Product Data Sheet****IROGRAN® A 80 E 6025**

Polyester-based Thermoplastic Polyurethane

PRODUCT DESCRIPTION

IROGRAN® A 80 E 6025 is a polyester-based Thermoplastic Polyurethane (TPU) for extrusion applications. Key features are plasticizer-free, low hardness and modulus, good low temperature performance and high transparency.

APPLICATIONS

Textile lamination, compounding and film and sheet.

TYPICAL PHYSICAL PROPERTIES

Properties	Key	NORM	Value	Unit
Hardness (after 3 sec.)	M	ISO 7619	78	Shore A
Tensile strength	E	DIN 53504	35	MPa
Elongation @ break	E	DIN 53504	550	%
Tensile stress @ 100% elongation	E	DIN 53504	3.8	MPa
Tensile stress @ 300% elongation	E	DIN 53504	9.2	MPa
Tear strength	E	ISO 34-1	73	N/mm
Abrasion	M	ISO 4649	74	mm ³
Softening range low	E	Huntsman TMA	125	°C
Softening range high	E	Huntsman TMA	145	°C

M = Injection molded parts to meet DIN & ASTM requirements. Parts at room temperature aged prior to testing.

E = Extruded film cut to ASTM requirements. Parts at room temperature aged 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

IROGRAN® A 80 E 6025 is supplied in bags, drums or octabins. Please contact your customer service to confirm this.

IROGRAN® A 80 E 6025 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

IROGRAN® A 80 E 6025 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

PHYSICAL FORM

Type: Transparent granules

PROCESSING PARAMETERS

Melt Index 177°C / 2.16 kg ASTM D 1238 = 7 g/10 min

Processing Parameter:	Extrusion
Temperature Profile	°C
Feed Zone:	25 - 40
Barrel:	160 - 170
Adapter:	160 - 170
Die:	165 - 175

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

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