

Product Data Sheet**IROGRAN® A 60 E 6034**

Polyester-based Thermoplastic Polyurethane

PRODUCT DESCRIPTION

IROGRAN® A 60 E 6034 is a polyester-based Thermoplastic Polyurethane (TPU) for extrusion applications. Key features are plasticizer-free, improved UV stability, hydrolytically stabilized, low hardness and modulus, excellent multilayer bonding, good low temperature performance, high elasticity and high recovery.

APPLICATIONS

Thin wall extrusion profiles, textile lamination, adhesive film and film and sheet.

TYPICAL PHYSICAL PROPERTIES

Properties	Key	NORM	Value	Unit
Hardness (after 3 sec.)	M	ISO 7619	62	Shore A
Density	M	ISO 1183-1	1.14	g/cm ³
Tensile strength	M	DIN 53504	16	MPa
Elongation @ break	M	DIN 53504	950	%
Tensile stress @ 100% elongation	M	DIN 53504	2.1	MPa
Tensile stress @ 300% elongation	M	DIN 53504	3.8	MPa
Tear strength	M	ISO 34-1	34	N/mm
Compression set at 70h @ 23°C	M	ISO 815	17	%
Compression set at 24h @ 70°C	M	ISO 815	40	%
Softening range low	E	Huntsman TMA	125	°C
Softening range high	E	Huntsman TMA	150	°C

M = Injection molded parts to meet DIN & ASTM requirements. Parts tempered for 20 hrs @ 100 °C 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 60 E 6034 is supplied in bags, drums or octabins. Please contact your customer service to confirm this.

IROGRAN® A 60 E 6034 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 60 E 6034 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 pellets

PROCESSING PARAMETERS

Melt Volume Rate 170°C / 8,7kg ISO 1133-1 = 30 cm³/10min

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

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

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