

Product Data Sheet**IROGRAN® A 70 E 5096 HUV MB DP**

New development polyester-based Thermoplastic Polyurethane

PRODUCT DESCRIPTION

IROGRAN® A 70 E 5096 HUV MB DP is a polyester-based Thermoplastic Polyurethane (TPU) for extrusion applications. Key features are phthalate-free, improved UV stability, hydrolytically stabilized, low hardness and modulus, excellent multilayer bonding and good low temperature performance.

APPLICATIONS

Textile lamination and adhesive film.

TYPICAL PHYSICAL PROPERTIES

Properties	Key	NORM	Value	Unit
Hardness (after 3 sec.)	M	ISO 7619	70	Shore A
Hardness (after 3 sec.)	M	ISO 7619	22	Shore D
Density	M	ISO 1183-1	1.18	g/cm ³
Tensile strength	M	DIN 53504	20	MPa
Elongation @ break	M	DIN 53504	800	%
Tensile stress @ 100% elongation	M	DIN 53504	2.2	MPa
Tensile stress @ 300% elongation	M	DIN 53504	4.2	MPa
Softening range low	E	Huntsman TMA	89	°C
Softening range high	E	Huntsman TMA	112	°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 70 E 5096 HUV MB DP is supplied in bags, drums or octabins. Please contact your customer service to confirm this.

IROGRAN® A 70 E 5096 HUV MB DP 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 70 E 5096 HUV MB DP 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 175°C / 2,16kg ISO 1133-1 = 20 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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