

**Product Data Sheet****IROGRAN® A 95 D 6020**

Polyester-based Thermoplastic Polyurethane

PRODUCT DESCRIPTION

IROGRAN® A 95 D 6020 is a polyester-based Thermoplastic Polyurethane (TPU) for extrusion and injection molding applications. Key features are abrasion resistance, excellent multilayer bonding, excellent wear performance, durability and high elasticity.

APPLICATIONS

Thin wall technical parts, thin wall extrusion profiles, thick wall extrusion profiles, textile lamination and adhesive film.

TYPICAL PHYSICAL PROPERTIES

Properties	Key	NORM	Value	Unit
Hardness (after 3 sec.)	M	ISO 7619	95	Shore A
Density	M	ISO 1183-1	1.21	g/cm ³
Tensile strength	M	DIN 53504	50	MPa
Elongation @ break	M	DIN 53504	500	%
Tear strength	M	ISO 34-1	110	N/mm
Softening range low	E	Huntsman TMA	165	°C
Softening range high	E	Huntsman TMA	180	°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 95 D 6020 is supplied in bags, drums or octabins. Please contact your customer service to confirm this.

IROGRAN® A 95 D 6020 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 95 D 6020 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 100-110°C in circulating air
- 3 hours at 80-90°C in dehumidified air
- Dew point: -30°C

PHYSICAL FORM

Type: Transparent pellets

PROCESSING PARAMETERS

Melt Volume Rate 210°C / 10kg ISO 1133-1 = 75 cm³/10min

Processing Parameter:	Extrusion
Temperature Profile	°C
Feed Zone:	25 - 40
Barrel:	195 - 215
Die Head:	195 - 215
Nozzle:	195 - 215

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

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