

Product Data Sheet**IROGRAN® A 95 P 6036 DP**

New development polyether-based Thermoplastic Polyurethane

PRODUCT DESCRIPTION

IROGRAN® A 95 P 6036 DP is a polyether-based Thermoplastic Polyurethane (TPU) for extrusion and injection molding applications. Key features are excellent hydrolysis and microbial resistance, good low temperature performance, durability, robust processing and high transparency.

APPLICATIONS

Thick wall technical parts, thin wall technical parts, thin wall extrusion profiles and film and sheet.

TYPICAL PHYSICAL PROPERTIES

Properties	Key	NORM	Value	Unit
Hardness (after 3 sec.)	M	ISO 7619	95	Shore A
Hardness (after 3 sec.)	M	ISO 7619	48	Shore D
Density	M	ISO 1183-1	1.14	g/cm ³
Tensile strength	M	DIN 53504	50	MPa
Elongation @ break	M	DIN 53504	450	%
Tensile stress @ 100% elongation	M	DIN 53504	14	MPa
Tensile stress @ 300% elongation	M	DIN 53504	31	MPa
Tear strength	M	ISO 34-1	115	N/mm
Abrasion	M	ISO 4649	35	mm ³
Softening range low	E	Huntsman TMA	170	°C
Softening range high	E	Huntsman TMA	190	°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 P 6036 DP is supplied in bags, drums or octabins. Please contact your customer service to confirm this.

IROGRAN® A 95 P 6036 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 95 P 6036 DP 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 200°C / 10 kg ISO 1133-1 = 15 cm³/10 min

Processing Parameter:	Extrusion	Injection Molding
Temperature Profile	°C	°C
Feed:	25 - 40	25 - 40
Barrel:	195 - 205	200 - 210
Adapter/Nozzle:	195 - 205	205 - 215
Die/Mold:	195 - 205	20 - 70

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

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