

TECHNICAL DATASHEET

LEADTHANE® 290AE TPU

Type: Leadthane® 290AE is A 90A MDI-Adipate polyester polyol based thermoplastic polyurethane.

Features: High clarity and transparency, good resilience, hydrolysis resistance, low temperature flexibility, high tensile strength.

Process: Extrusion, injection molding, calender & coating.

Physical Properties	Test Method	Unit	Value
Hardness	ASTM D2240	Shore A	90
Specific Gravity	ASTM D792	g/cm3	1.12
100% Modulus	ASTM D412	MPa	10
300% Modulus	ASTM D412	MPa	23
Tensile Strength	ASTM D412	MPa	35
Tear Strength	ASTM D412	N/mm	120
Ultimate Elongation	ASTM D412	%	400
Vitrification Temperature	ASTM D3418	°C	-40
Processing Temperature	—	°C	180-200

Listed values are "typical (average) values" and should/cannot be applied for specification purposes.

Supply Form and Standard Packaging:

Leadthane® 290AE TPU is supplied in pellet form and 25Kg Paper Bag with outer 3ply Paper and inner 1 PE Bag.

Material Preparation:

- Prior to processing, Leadthane®290AE TPU must be dried.

Hardness	Drying Time	Circulating Air Dryer	Desiccant Type Dryer
Blew 90A	2~3 Hours	100-110°C	80~100°C
Above 90A	2~3 Hours	100-120°C	90~110°C

- It is recommended to dry the material in a desiccant type dryer. Target dew point should be -40°C.
- Depending on the applied processing technique, the maximum moisture level should be 0.03%.

Processing Conditions:

Leadthane® 290AE TPU can be processed on any conventional extruder or molder.



联钻Leadthane

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