

PC General Purpose

General-Purpose Polycarbonate · Glazing & Fabrication Grade

IMPACT — IZOD UNNOTCHED**No Break**

ISO 180/1U · 23 °C · 3.0 mm

CHARACTERISTICS

- High impact strength — virtually unbreakable
- Optical clarity — 84-87% light transmission
- Easily thermoformed, cut, drilled & milled
- High heat resistance — Vicat 145 °C
- UL 94 HB & EN 13501-1 (B-s1,d0) fire rated

APPLICATIONS

- Machine guards & safety screens
- Secondary & anti-intrusion glazing
- Thermoformed complex parts
- Fabricated indoor components
- Signage, displays & decorated parts

COMPLIANCE UL 94 HB · EN 13501-1 (B-s1,d0) · UL746B RTI 130 °C · IEC 60695 · RoHS · REACH SVHC · ISO 9001:2015**TYPICAL PROPERTIES** *All values are typical · ISO / IEC / UL methods · derived from LEXAN resin data*

PROPERTY	TEST METHOD	VALUE	UNIT
MECHANICAL			
Yield Stress	ISO 527	> 60	MPa
Yield Strain	ISO 527	6	%
Strain @ Break	ISO 527	> 100	%
Tensile Modulus	ISO 527	2300	MPa
Flexural Strength	ISO 178	90	MPa
Flexural Modulus	ISO 178	2300	MPa
IMPACT			
Charpy Notched	ISO 179	75	kJ/m ²
Izod Unnotched	ISO 180	NB	—
Izod Notched	ISO 180	70	kJ/m ²
PHYSICAL			
Density	ISO 1183	1.20	g/cm ³
Water Absorption (sat.)	ISO 62	0.35	%

PROPERTY	TEST METHOD	VALUE	UNIT
OPTICAL			
Light Transmission	ASTM D1003	84 - 87	%
THERMAL			
Vicat Softening (B/120)	ISO 306	145	°C
HDT @ 1.8 MPa	ISO 75-2	127	°C
RTI Electrical	UL 746B	130	°C
CLTE (23-55 °C)	ISO 11359	7×10 ⁻⁵	/°C
Ball Pressure Test	IEC 60695	Pass	
FLAMMABILITY			
UL 94 (0.75-6 mm)	UL 94	HB	
Fire — EN 13501-1	EN 13501	B-s1,d0	
ELECTRICAL			
Volume Resistivity	IEC 60093	> 10 ¹⁵	Ω·cm
Dielectric Strength	IEC 60243	18	kV/mm

NOTES

Property values derived from LEXAN resin data for the sheet product. Tests per ISO / IEC / UL methods: yield stress at 50 mm/min and tensile modulus at 1 mm/min (ISO 527); flexural at 2 mm/min (ISO 178); Charpy notched (ISO 179/1eA) and Izod (ISO 180) on 3.0 mm at 23 °C — unnotched Izod does not break (NB); Vicat rate B/120 (ISO 306); HDT flat at 1.8 MPa (ISO 75-2); RTI per UL 746B. Light transmission 84-87% depending on thickness. Fire: UL 94 HB (0.75-6 mm) and EN 13501-1 B-s1,d0 (2-6 mm). Readily thermoformed, cut, sawn, drilled and milled; decoratable by painting and screen printing. Standard gauges 2-15 mm (thin-gauge 0.75-1.5 mm); sizes to 2050×3050 mm; colours and dimensions on request. Resin sourced from globally-certified suppliers including SABIC (LEXAN grade family). Values are typical, intended as guide only. Final product suitability must be validated under actual application conditions.

PERFORMANCE PROFILE**No Break** Izod

Unnotched, 23 °C

84-87% light

Optical clarity

145 °C Vicat

High heat resistance

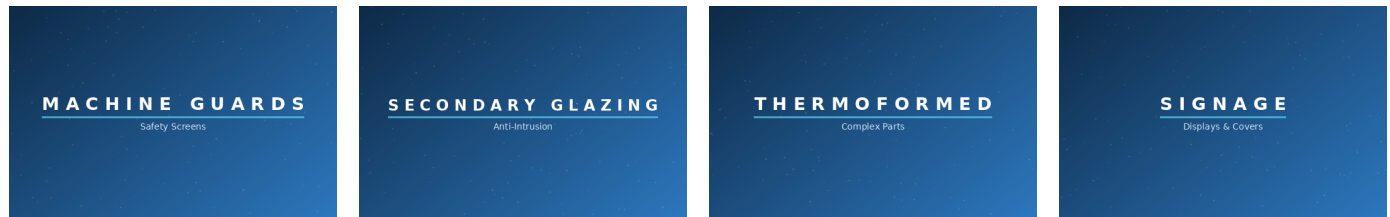
UL 94 HB

+ EN 13501 B-s1,d0

Clear, tough, heat-resistant PC — the general-purpose workhorse for glazing and fabrication.

APPLICATIONS

Where PC General Purpose gets specified — clear, impact-tough polycarbonate for glazing, guards and fabrication.



Machine Guards

Safety screens and machine guards. Impact-tough, clear, easy to fabricate on-site.

Secondary Glazing

Anti-intrusion and breakage protection behind existing glazing. Economical, clear.

Thermoformed Parts

Complex thermoformed parts that keep PC's impact and heat performance.

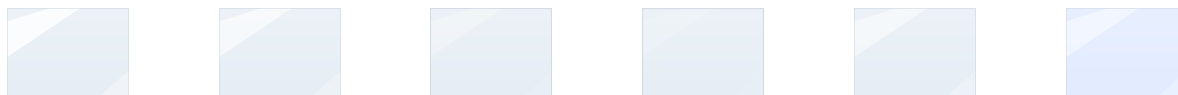
Signage & Displays

Signage, displays and light covers. Paintable and screen-printable surfaces.

PRODUCTION SPECIFICATIONS

Sheet Thickness	0.75 - 15 mm	Thin-gauge 0.75-1.5; standard 2-15 mm
Sheet Width	up to 2050 mm	Standard glazing width
Sheet Length	up to 3050 mm	Custom cut-to-size on request
Layer Structure	Mono / Coex	Masked both sides
Fabrication	Saw / drill / mill	Thermoform, paint & screen-print
Colour	Clear / Opal / Tint	Custom colours on request

SURFACE FINISHES



F01

Clear Gloss

F02

Opal White

F03

Anti-Glare

F04

Matte

F05

Frost

F06

Tinted

Finish and colour options — availability on request.

HOW TO READ THESE NUMBERS

Quick reference for what each test actually tells you about how the sheet behaves.

▪ Yield Stress

Force before the sheet permanently deforms.

▪ Strain @ Break

How far it stretches before failing. >100% = very ductile.

▪ Tensile Modulus

Stiffness in tension. Higher = more rigid.

▪ Impact (Izod/Charpy)

Resistance to knocks. Unnotched = No Break.

▪ Light Transmission

How much light passes through. 84-87% = clear.

▪ Vicat / HDT

Heat at which it softens (Vicat) or sags (HDT).

▪ RTI

Long-term service temperature rating (UL 746B).

▪ CLTE

How much it expands with heat. Matters for fit.

▪ UL 94 HB

Horizontal burn rating — slow, controlled burn.

▪ EN 13501-1

European building fire class (B-s1,d0).

▪ Dielectric Strength

Voltage it withstands before breakdown.

▪ Density

Mass vs water. 1.20 = slightly heavier than water.

STELLAR-EX

Sheet Extrusion Excellence

INDU THERMOFORMERS PVT. LTD. / FORMPACK

Plot No. 6 & 45, Vasai Taluka Co-op Estate, Sector 1, Gauraipada, Vasai East, Palghar 401208, India
 +91-250-2456774 / 75 · sales@induthermoformers.com · www.induthermoformers.com

DOC: TDS-FORMGPPC-2026-01 · Rev 01 · Issue date: July 2026 · Stellar-Ex™ — a brand of Indu Thermoformers

ISO 9001 : 2015

Quality Management Certified

GSTIN 27AADCM9861D1ZA

Established 1985