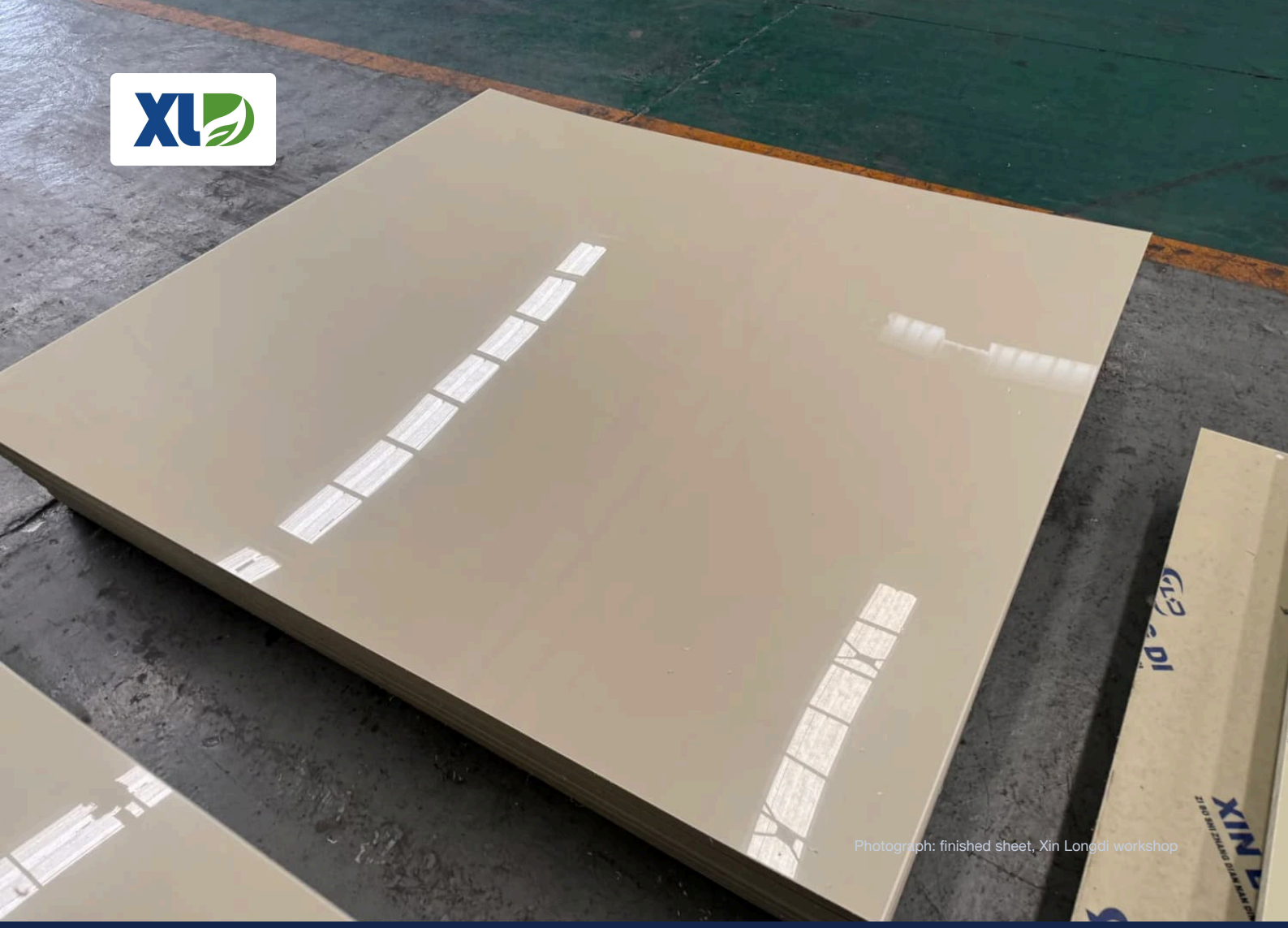


Photograph: finished sheet, Xin Longdi workshop

XIN LONGDI · ENGINEERING PLASTIC SHEET

PP Sheet

Product overview & polypropylene type guide

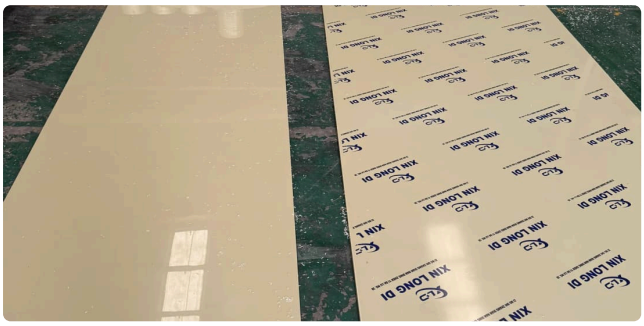
> Product overview and material selection guide. Not a certified technical data sheet. Company data and reference values are labelled separately throughout.

Document	Version	Language	Contact
XLD-PO-PP-EN	1.0 · 2026-10-31	English	xldplastics.com

01 · PRODUCT

PP sheet up to 3.6 m wide, made and fabricated in-house

Xin Longdi's PP sheet is the same sheet product it also sells as PPH sheet. It is extruded in Zibo, Shandong, in widths up to 3.6 m, and supplied as full sheets, cut blanks or fabricated parts.



Bare and protective-film sheet surfaces · Xin Longdi



Sheet cutting · Xin Longdi workshop

Supply data

A · Company data

Production	In-house extrusion in Zibo, Shandong; manufacturer since 2018
PP / PPH naming	Xin Longdi uses “PP sheet” and “PPH sheet” for the same sheet product. PPH is the industry designation for homopolymer polypropylene (PP-H); the actual resin type and commercial grade are confirmed for each order
Thickness	3–40 mm routine; thicker sheet for large-volume orders after technical confirmation
Width	Up to 3.6 m production width
Length	Continuously extruded and cut to length for the order
Colours	Beige grey, light grey, dark grey and white, subject to production and stock; custom colours on request
Surface	Smooth on both sides as standard; special surfaces assessed for custom orders
Supply formats	Full sheets, cut-to-size blanks, CNC-machined parts and welded assemblies
Packing	Protective film available; pallet or project-specific packing to order
Documents	Raw-material TDS, product data and test reports only as actually available and agreed for the order

From Xin Longdi's production and supply records. Tolerances, grade documents, minimum order and lead time are confirmed for each order.

How this document labels information

A · Company data From Xin Longdi production and supply records. Not laboratory test results.

B · Reference Published guideline values of named third-party grades, with source and method. Not Xin Longdi data, not typical, minimum or guaranteed values.

C · Per order Confirmed in writing for each order: tolerances, grade documents, minimum order, lead time, media and temperature suitability.

02 · POLYPROPYLENE TYPES

PP-H, PP-B, PP-R: which polypropylene is which

Type	Polymer	Character	Typical sheet use	Xin Longdi
PP-H	Homopolymer	Highest stiffness and softening point of the three; brittle at low temperature	Chemical tanks, scrubbers, welded process equipment above 0 °C	**Routine sheet line** sold as PP / PPH sheet; resin grade confirmed per order
PP-B	Block copolymer	Much higher impact strength, long-term service down to –30 °C in the reference grade; lower stiffness	Outdoor, cold or impact-loaded parts	Not confirmed; ask before specifying
PP-R	Random copolymer	Lower stiffness and melting range; used mainly for pipe systems	Pipe and fitting systems, some welded parts	Not confirmed; ask before specifying
“PP-C”	Supplier naming	Some suppliers call their copolymer sheet PP-C; it is not a separate standard type	Check the actual type and grade behind the name	—

Temperature and impact statements in this table come from the reference grades below (B · Reference). Type descriptions follow industry references (for example Röchling's chemical-processing material guide and SIMONA's PP-H / PP-C naming). They describe polymer types, not a specific commercial grade.

Reference values for PP-H and PP-B

B · Reference · not Xin Longdi data

Property	PP-H ref.	PP-B ref.	Unit	Test method
Density	**> 0.90**	**> 0.91**	g/cm³	DIN EN ISO 1183-1
Yield stress	**> 30**	**> 23**	MPa	DIN EN ISO 527
Elongation at break	**> 50**	**> 50**	%	DIN EN ISO 527
Tensile modulus	**> 1500**	**> 1100**	MPa	DIN EN ISO 527
Notched impact strength (Charpy)	**> 6**	**> 30**	kJ/m²	DIN EN ISO 179
Shore hardness	**> 70**	**> 65**	Shore D	DIN EN ISO 868
Melting temperature	**162 … 167**	**162 … 165**	°C	ISO 11357-3
Vicat softening temperature (B)	**90**	**85**	°C	DIN EN ISO 306, Vicat B
Service temperature, long term	**0 … 100**	**–30 … 100**	°C	Average
Service temperature, short term (max.)	**150**	**150**	°C	Average
Linear thermal expansion	**120 … 190**	**120 … 190**	10^{-6}/K	DIN 53752
Thermal conductivity	**0.20**	**0.20**	W/(m·K)	DIN 52612-1
Flammability	**HB**	**HB**	—	UL 94 (3 mm / 6 mm)

Published guideline values for two named Röchling grades, quoted to show how PP-H and PP-B differ. Xin Longdi has not tested its sheet to these methods. They are not typical, minimum or guaranteed values for Xin Longdi products.

1. **PP-H** — Röchling Industrial, Polystone® P homopolymer grey, extruded. Technical Data Sheet, version 5.0, released 08/12/2025 (PIM-ID 590977). https://www.roechling.com/industrial/materials/thermoplastics/industrial-plastics/pp-h/polystone-p-homopolymer-grey-718434 (retrieved 2026-10-31).
2. **PP-B** — Röchling Industrial, Polystone® P copolymer white. Product page guideline values (product 591115). https://www.roechling.com/industrial/materials/thermoplastics/industrial-plastics/pp-b/polystone-p-copolymer-white-591115 (retrieved 2026-10-31).

03 · CHOOSING & PROCESSING

Choosing a PP sheet for your part

PP-H: higher stiffness and softening point. The usual choice for chemical tanks, scrubbers and welded process equipment above 0 °C. (Based on the reference grades in section 02.)

PP-B: several times the notched impact strength and service down to –30 °C. Considered for outdoor, cold or impact-loaded parts. (Based on the reference grades in section 02.)

Xin Longdi sells its routine sheet line as PPH; the resin type and grade are confirmed for each order. Ask before specifying a copolymer or special formulation.

Statements marked “based on the reference grades” summarise Röchling guideline values (B · Reference). They are not Xin Longdi test results.

Special formulations (on request, after review)

Flame-retardant, antistatic, electrically conductive, UV-stabilised, talc-filled and glass-fibre-reinforced PP, fabric-backed sheet, textured surfaces and custom colours can be discussed for an order. Availability, grade and documents are confirmed before acceptance; standard PP sheet does not have these properties by default.

Processing

Cut to size, CNC machined to drawings and welded into tanks, housings and assemblies in the same workshop; the welding method for each joint is agreed with the drawing.



Cut PP components · Xin Longdi workshop

Tolerances and inspection

C · Per order

Agreed in a written technical annex for each order. ISO 15013 (extruded PP sheet: requirements and test methods) can serve as a basis; no conformity is claimed here.

Packing and storage

- Protective film on request; pallet or project packing
- Store flat, fully supported, away from sunlight and heat
- Lift long sheets with spreader support

04 · REQUEST FOR QUOTATION

What to include in your enquiry

01 Material and grade, or the application if the grade is open	02 Thickness, width and length; or the drawing with revision
03 Quantity, and whether full sheets, cut blanks or finished parts	04 Surface, colour and protective film requirements
05 Media, concentration and operating temperature (continuous / peak)	06 Tolerances, acceptance method and required documents
07 Packing, delivery country or port and target date	08 For fabricated parts: welding, assembly and inspection scope

Confirmed for each order

C · Per order

- Dimensional tolerances and acceptance method
- Commercial grade, TDS and test documents
- Minimum order, lead time and packing
- Chemical and temperature suitability for your media

Request a Quote ↗

Send your requirements or drawing. We review material, dimensions and fabrication scope before quoting.

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Document control

Document	PP Sheet — Product Overview & PP Type Guide (XLD-PO-PP-EN)
Version / date	1.0 · 2026-10-31 · English
Nature	Product overview and material selection guide. Not a certified technical data sheet. Prepared from Xin Longdi's published supply records and named public references. It does not certify product properties, compliance or suitability for a specific use.
Current version	https://xldplastics.com/documents/technical/xld-pp-sheet-overview-en-v1.0.pdf · product page https://xldplastics.com/en/products/plastic-sheets/pp-sheet
Revision	1.0 — first issue.

See also: PPH Sheet — Product Overview & Selection Guide (XLD-PO-PPH-EN) for chemical process equipment, tanks and welding.