

100% POPLAR PARTICLEBOARD

“TUTTO Pioppo”



INVERNIZZI
Plywood Tradition

This technical datasheet is not a contract reference document. Given average values are linked to internal tests carried out in our internal laboratories (unless specified differently) and may be subject to changes without any previous advice in accordance to production requirements.

APPLICATIONS	 FURNITURE	 CONSTRUCTION	 HOSPITALS & CLINICS	 MOTORHOMES & CARAVANS	 SHIPBUILDING	 RAILWAYS				
PHYSICAL/MECHANICAL PROPERTIES	REFERENCE STANDARD	MEASURING UNIT	THICKNESS (mm)							
			8-12	14	16-18	20-25	28-30	40-45	50	60
 DENSITY	EN 323	Kg/m³	535	510	500	490	480	450	440	430
 BENDING STRENGTH	EN 310	N/mm²	11	11	11	10,5	8,5	7,5	7	7
 MODULUS OF ELASTICITY IN BENDING	EN 310	N/mm²	1800	1600	1600	1500	1350	1050	1050	1050
 TENSILE STRENGTH [INTERNAL COHESION]	EN 319	N/mm²	0,40	0,35	0,35	0,30	0,25	0,20	0,20	0,20
 SURFACE SOUNDNESS OF PARTICLEBOARDS	EN 311	N/mm²	0,8							
 RESISTANCE TO AXIAL WITHDRAWAL OF FITTINGS	EN 320	N	600±10%							
 MOISTURE CONTENT	EN 322	%	9±2							
 SWELLING [MAX % AFTER 24h]	EN 317	%	<18							
 AVERAGE FORMALDEHYDE RELEASE	EN 717-1	mg/m³	<0,062 [Class E 1/2] EU Reg.2023/1464							
	ASTM E 1333	ppm	<0,09 CARB phase 2 [available on request]							
 PANEL COMPOSITION	N.A.	Single-layer panel composed of 100% virgin poplar wood particles in different chip sizes.								
 BONDING TYPE	N.A.	Resin composed of Urea and Formaldehyde.								
	N.A.	Resin composed of Urea and Formaldehyde reinforced with Melamine.								
 ENGINEERING TOLERANCES	EN 324-1/2	Length & Width: ± 5 mm Thickness: + 0,3 mm [sanded panels] Squaring: 2 mm / every 1000 mm length								
 PANEL CLASSIFICATION	EN 312	P2: panel for use in interior settings and fitments, including furniture. For use in dry environments only.								

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FIRE RETARDANT *POPLAR* PARTICLEBOARD

“Ignipas”



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APPLICATIONS	 FURNITURE	 CONSTRUCTION	 HOSPITALS & CLINICS	 MOTORHOMES & CARAVANS	 SHIPBUILDING	 RAILWAYS					
PHYSICAL/MECHANICAL PROPERTIES	REFERENCE STANDARD	MEASURING UNIT	THICKNESS (mm)								
			10	12	14	18	20	25	30	40	
 DENSITY	EN 323	<i>Kg/m³</i>	630	620	610	600	600	590	580	570	
 BENDING STRENGTH	EN 310	<i>N/mm²</i>	11	11	11	11	11	10,5	9,5	8,5	
 MODULUS OF ELASTICITY IN BENDING	EN 310	<i>N/mm²</i>	1800	1800	1600	1600	1600	1500	1350	1200	
 TENSILE STRENGTH [INTERNAL COHESION]	EN 319	<i>N/mm²</i>	0,40	0,35	0,35	0,35	0,35	0,30	0,25	0,20	
 SURFACE SOUNDNESS OF PARTICLEBOARDS	EN 311	<i>N/mm²</i>	0,8								
 RESISTANCE TO AXIAL WITHDRAWAL OF FITTINGS	EN 320	<i>N</i>	600±10%								
 MOISTURE CONTENT	EN 322	%	9±2								
 SWELLING [MAX % AFTER 24h]	EN 317	%	<18								
 AVERAGE FORMALDEHYDE RELEASE	EN 717-1	<i>mg/m³</i>	<0,062 [Class E 1/2] EU Reg.2023/1464								
 PANEL COMPOSITION	N.A.	Single-layer panel composed of 100% virgin poplar wood particles in different chip sizes with addition of fire-retardant salts.									
 BONDING TYPE	N.A.	Resin composed of Urea and Formaldehyde.									
 ENGINEERING TOLERANCES	EN 324-1/2	Length & Width: ± 5 mm Thickness: + 0,3 mm [sanded panels] Squaring: 2 mm / every 1000 mm length									
 PANEL CLASSIFICATION	EN 312	P2: panel for use in interior settings and fitments, including furniture. For use in dry environments only.									

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WATERPROOF *POPLAR* PARTICLEBOARD

“Idropas”



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Plywood Tradition

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APPLICATIONS	 FURNITURE	 CONSTRUCTION	 HOSPITALS & CLINICS	 SHIPBUILDING	 RAILWAYS
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PHYSICAL/MECHANICAL PROPERTIES ⁽¹⁾	REFERENCE STANDARD	MEASURING UNIT	THICKNESS [mm]							
			10	14	18	25	30	40	50	56
 DENSITY	EN 323	<i>Kg/m³ ±5%</i>	580	560	550	530	510	500	480	480
 BENDING STRENGTH	EN 310	<i>N/mm²</i>	17	15	15	13	13	10	8	8
 MODULUS OF ELASTICITY IN BENDING	EN 310	<i>N/mm²</i>	2200	2200	2200	2000	1800	1700	1400	1400
 TENSILE STRENGTH [INTERNAL COHESION]	EN 319	<i>N/mm²</i>	0,50	0,50	0,50	0,45	0,40	0,32	0,28	0,26
 SURFACE SOUNDNESS OF PARTICLEBOARDS	EN 311	<i>N/mm²</i>	0,8							
 RESISTANCE TO AXIAL WITHDRAWAL OF FITTINGS	EN 320	<i>N</i>	700±5%							
 MOISTURE CONTENT	EN 322	<i>%</i>	9±2							
 SWELLING [MAX % AFTER 24h]	EN 317	<i>%</i>	15	13	13	12	12	12	12	12
 AVERAGE FORMALDEHYDE RELEASE	EN 717-1	<i>mg/m³</i>	<0,062 [Class E 1/2] EU Reg.2023/1464							
	ASTM E 1333	<i>ppm</i>	< 0,09 [CARB ACTM Phase 2] - [U.S. EPA TSCA Title VI]							
	EN 16516	<i>ppm</i>	< 0,1 UBA - BAnz AT 26.11.2018 B2							
 PANEL COMPOSITION	N.A.	Panel composed of 100% virgin poplar wood particles - not recycled - <i>Populus spp.</i> FSC® 100% [available on request]								
 BONDING TYPE	N.A.	Resin composed of Melamine, Urea and Formaldehyde - MUF								
 ENGINEERING TOLERANCES	EN 324-1/2	Length & Width: ± 5 mm Thickness: + 0,3 mm [sanded panels] Squaring: 2 mm / every 1000 mm length								
 PANEL CLASSIFICATION	EN 312	P3: use in wet environments with non-structural features								

⁽¹⁾ This technical datasheet shows the average indicative values of poplar particleboard, urea bonding, referring to humidity of 9% +/- 2%, made with clone I-214. These values comply with EN 312 standard: Particle board panels - Specifications.

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