

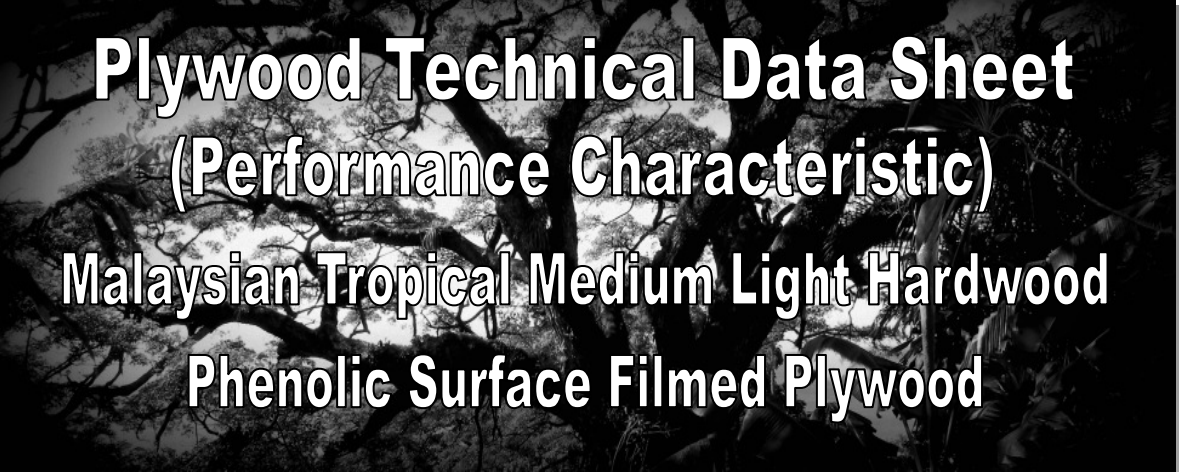


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Products Sdn. Bhd.

(293019-V)

美亞胶合板有限公司



Plywood Technical Data Sheet

(Performance Characteristic)

Malaysian Tropical Medium Light Hardwood

Phenolic Surface Filmed Plywood

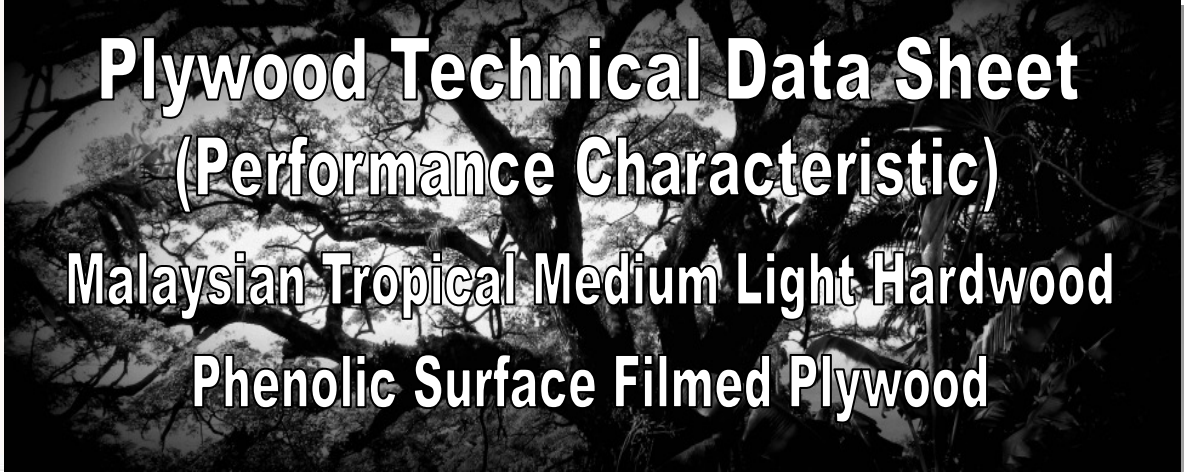
Thickness/mm (EN 315: 2000)	Type	9mm / 5 plies	Composition Ratio		40.4%
	Min	8.33	Veneer Thickness (mm)	Face/ Back	1.00
	Max	9.47		Short Core	2.80
	Lay-up	- - - -		Long Core	1.80

Dimensional Tolerance (EN 315: 2000)	
Length & Width	± 3.5mm
Squareness	± 1 mm/m
Straightness	± 1 mm/m

Bonding Quality/ durability	Bonding Class 3		
Bending Strength and Stiffness	F15/25 , E30/50	Result	F = 37.54MPa / 64.50MPa E = 4770MPa / 7521MPa
Release of formaldehyde	Class E1 (EN 13986 Annex B for Phenol formaldehyde adhesives)		
Density	≥ 400kg/m ³	Result	625kg/m ³
Reaction to fire	D-s2, d0 (EN 13986 Tab. 8 for density ≥ 400kg/m ³ and thickness ≥ 9mm)		
Water vapour permeability	Interpolated from EN13986 Tab. 9 for density 700kg/m ³		
	wet cup	90	dry cup 220
Airborne sound insulation	Calculated per EN 13986 section 5.10 using formula (t = thickness in mm)		
	R = 13 x 1g (0.600 x t) + 14		
Sound absorption coefficient	EN 13986 Tab. 10		
	250 - 500 Hz: 0.10		1000 - 2000 Hz: 0.30
Thermal conductivity	Interpolated from EN13986 Tab. 9 for density 700kg/m ³		
	λ = 0.17 W / (m.K)		
Content of pentachlorophenol	EN 13986 section 5.18		



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Malaysian Tropical Medium Light Hardwood Phenolic Surface Filmed Plywood

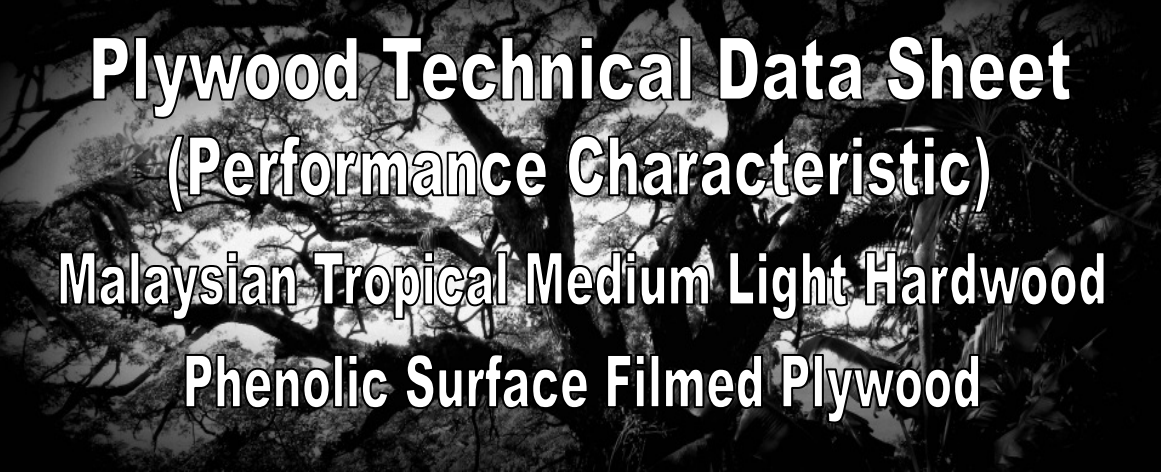
Thickness/mm (EN 315: 2000)	Type	12mm / 7 plies	Composition Ratio		47.1%
	Min	11.24	Veneer Thickness (mm)	Face/ Back	1.00
	Max	12.56		Short Core	2.10
	Lay-up	- - - - - -		Long Core	1.80

Dimensional Tolerance (EN 315: 2000)	
Length & Width	± 3.5mm
Squareness	± 1 mm/m
Straightness	± 1 mm/m

Bonding Quality/ durability	Bonding Class 3		
Bending Strength and Stiffness	F20/25 , E30/50	Result	F = 33.00MPa / 49.90MPa E = 4012MPa / 4375MPa
Release of formaldehyde	Class E1 (EN 13986 Annex B for Phenol formaldehyde adhesives)		
Density	≥ 400kg/m ³	Result	615kg/m ³
Reaction to fire	D-s2, d0 (EN 13986 Tab. 8 for density ≥ 400kg/m ³ and thickness ≥ 9mm)		
Water vapour permeability	Interpolated from EN13986 Tab. 9 for density 700kg/m ³		
	wet cup	90	dry cup 220
Airborne sound insulation	Calculated per EN 13986 section 5.10 using formula (t = thickness in mm)		
	R = 13 x 1g (0.600 x t) + 14		
Sound absorption coefficient	EN 13986 Tab. 10		
	250 - 500 Hz: 0.10		1000 - 2000 Hz: 0.30
Thermal conductivity	Interpolated from EN13986 Tab. 9 for density 700kg/m ³		
	λ = 0.17 W / (m.K)		
Content of pentachlorophenol	EN 13986 section 5.18		



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Malaysian Tropical Medium Light Hardwood Phenolic Surface Filmed Plywood

Thickness/mm (EN 315: 2000)	Type	18mm / 9 plies	Composition Ratio		39.8%
	Min	17.06	Veneer Thickness (mm)	Face/ Back	1.00
	Max	18.74		Short Core	2.80
	Lay-up	- - - - - - - -		Long Core	1.80

Dimensional Tolerance (EN 315: 2000)	
Length & Width	± 3.5mm
Squareness	± 1 mm/m
Straightness	± 1 mm/m

Bonding Quality/ durability	Bonding Class 3		
Bending Strength and Stiffness	F20/25 , E40/50	Result	F = 37.60MPa / 46.90MPa E = 5129MPa / 5814MPa
Release of formaldehyde	Class E1 (EN 13986 Annex B for Phenol formaldehyde adhesives)		
Density	≥ 400kg/m ³	Result	616kg/m ³
Reaction to fire	D-s2, d0 (EN 13986 Tab. 8 for density ≥ 400kg/m ³ and thickness ≥ 9mm)		
Water vapour permeability	Interpolated from EN13986 Tab. 9 for density 700kg/m ³		
	wet cup	90	dry cup
Airborne sound insulation	Calculated per EN 13986 section 5.10 using formula (t = thickness in mm)		
	R = 13 x 1g (0.600 x t) + 14		
Sound absorption coefficient	EN 13986 Tab. 10		
	250 - 500 Hz: 0.10		1000 - 2000 Hz: 0.30
Thermal conductivity	Interpolated from EN13986 Tab. 9 for density 700kg/m ³		
	λ = 0.17 W / (m.K)		
Content of pentachlorophenol	EN 13986 section 5.18		

Plywood Technical Data Sheet

(Performance Characteristic)

Malaysian Tropical Medium Light Hardwood

Phenolic Surface Filmed Plywood

Thickness/mm (EN 315: 2000)	Type	21mm / 11 plies	Composition Ratio		35.2%
	Min	19.97	Veneer Thickness (mm)	Face/ Back	1.00
	Max	21.83		Short Core	2.80
	Lay-up	- - - - - - - - - -		Long Core	1.40

Dimensional Tolerance (EN 315: 2000)	
Length & Width	± 3.5mm
Squareness	± 1 mm/m
Straightness	± 1 mm/m

Bonding Quality/ durability	Bonding Class 3		
Bending Strength and Stiffness	F25/50 , E80/120	Result	F = 43.72MPa / 85.26MPa E = 9025MPa / 13731MPa
Release of formaldehyde	Class E1 (EN 13986 Annex B for Phenol formaldehyde adhesives)		
Density	≥ 400kg/m ³	Result	736kg/m ³
Reaction to fire	D-s2, d0 (EN 13986 Tab. 8 for density ≥ 400kg/m ³ and thickness ≥ 9mm)		
Water vapour permeability	Interpolated from EN13986 Tab. 9 for density 700kg/m ³		
	wet cup	90	dry cup 220
Airborne sound insulation	Calculated per EN 13986 section 5.10 using formula (t = thickness in mm)		
	R = 13 x 1g (0.600 x t) + 14		
Sound absorption coefficient	EN 13986 Tab. 10		
	250 - 500 Hz: 0.10		1000 - 2000 Hz: 0.30
Thermal conductivity	Interpolated from EN13986 Tab. 9 for density 700kg/m ³		
	λ = 0.17 W / (m.K)		
Content of pentachlorophenol	EN 13986 section 5.18		