

Product Data Sheet TECU® Bond Classic FR

Stand: 24.04.2008

Physical and Mechanical Properties of Composite Sheet	
Properties	Value
Face Material	Cu- DHP (TECU® Classic)
Total composite sheet thickness	4.0 mm
Thickness of copper outer face	0.3 mm
Thickness of copper inner face	0.3 mm
Core thickness	3.4 mm
Modulus of Elasticity	16,659 ± 651 N/mm ²
Yield Strength	40.81 ± 0.37 N/mm ²
Ultimate Tensile Strength	53.01 ± 0.58 N/mm ²
Moment of Inertia	8.31 ± 0.96 %
Flexural Rigidity	0.227 ± 0.005 cm ⁴ /m
Shear strength	2,662 ± 0.062 kN cm ² /m

Technical Specification			
Item	Properties	Value FR Cu	Test Method
1	Dimensional Tolerances (mm) - thickness - width - length	0/ + 0.2 0/ + 2.5 0/ + 4.0	
2	Squareness Tolerance between diagonals (mm)	± 3.0	
3	Panel mass (kg/m ²)	10.42 ± 10 %	
4	Core density (kg/m ³)	1,640 ± 10%	PN-EN ISO 845:2000
5	Flexural rigidity, average value in perpendicular and parallel direction, MPa	≥ 100	PN-EN ISO 178:2006
6	Modulus of elasticity when bending, average value in perpendicular and parallel direction, MPa	17,000	
7	Bond strength between core and surface, tear-off method: average value in perpendicular and parallel direction (N/mm)	≥ 600	PN-69/ C-89302
8	Core burning heat PCS, MJ/kg	≥ 13.16	PN-EN ISO 1716:2004

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