

Technical Specifications



SOLIDAL® T4®

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Panel Thickness (mm)	4mm
Available width (mm)	1240mm, 1500mm, 2000mm
Length (mm)	up to 7000mm

Physical Properties

MECHANICAL PROPERTIES	* 3000 Series SOLIDAL®	** 5000 Series SOLIDAL®
Brinell Hardness	45	67
Elastic Modulus	70GPa	68GPa 9.9 x 106 psi
Elongation at Break	6.0%	8.0%
Fatigue Strength	68 MPa	110 MPa 15 x 103 psi
Poisson's Ratio	0.33	0.33
Shear Modulus	26 GPa	26 GPa 3.7 x 106 psi
Shear Strength	93 MPa	150 MPa 22 x 103 psi
Tensile Strength: Ultimate	160 MPa	250 MPa 37 x 103 psi
Tensile Strength: Yield (Proof)	125 MPa	190 MPa 28 x 103 psi
THERMAL PROPERTIES		
Melting Onset (Solidus)	640 °C 1120 °F	610 °C 1120 °F
Specific Heat Capacity	900 J/kg-K 0.22 BTU/lb-°F	900 J/kg-K 0.22 BTU/lb-°F
Thermal Conductivity	180 W/m-K 100 BTU/h-ft-°F	140 W/m-K 80 BTU/h-ft-°F
Thermal Expansion	23µm/m-K	24µm/m-K
ELECTRICAL PROPERTIES		
Electrical Conductivity: Equal Volume	44% IACS	35% IACS
Electrical Conductivity: Equal Weight (Specific)	140%	120%

* 3000 Series SOLIDAL® is ideal for Kynar® 500 Continuous coated PPG PVDF and Powder coating
** 5000 Series SOLIDAL® is ideal for Anodise application
(Please consult a SOLIDAL® representative for further information on Anodised grade Aluminium)
Visit www.solidalmetal.com or contact us for more information