

## Alcoa 7055-T7751 Aluminum Plate

Category : Metal , Nonferrous Metal , Aluminum Alloy , 7000 Series Aluminum Alloy

### Material Notes:

Alcoa introduced alloy 7055 in the -T7751 temper for plate and the -T77511 for extrusions in 1991. This alloy was developed for use in compression-dominated structures (such as upper wing structures, horizontal stabilizer, and keel beams) and provides advantages over alloy 7150 in compressive and tensile strengths while maintaining other important properties such as fracture toughness and corrosion resistance. Information provided by Alcoa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Alcoa-7055-T7751-Aluminum-Plate.php](http://www.lookpolymers.com/polymer_Alcoa-7055-T7751-Aluminum-Plate.php)

Physical Properties	Metric	English	Comments
Density	2.86 g/cc	0.103 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	627 MPa	91000 psi	LT Direction
	@Thickness 25.4 mm	@Thickness 1.00 in	
	669 MPa	97000 psi	Longitudinal Direction
	@Thickness 25.4 mm	@Thickness 1.00 in	
Tensile Strength, Yield	614 MPa	89000 psi	LT Direction
	@Thickness 25.4 mm	@Thickness 1.00 in	
	655 MPa	95000 psi	Longitudinal Direction
	@Thickness 25.4 mm	@Thickness 1.00 in	
Elongation at Break	10 %	10 %	LT Direction
	@Thickness 25.4 mm	@Thickness 1.00 in	
	11 %	11 %	Longitudinal Direction
	@Thickness 25.4 mm	@Thickness 1.00 in	
Compressive Yield Strength	669 MPa	97000 psi	Longitudinal Direction
	@Thickness 25.4 mm	@Thickness 1.00 in	
Fracture Toughness	27.5 MPa-m <sup>1/2</sup>	25.0 ksi-in <sup>1/2</sup>	K <sub>IC</sub> , T-L
	@Thickness 25.4 mm	@Thickness 1.00 in	
	33.0 MPa-m <sup>1/2</sup>	30.0 ksi-in <sup>1/2</sup>	K <sub>IC</sub> , L-T
	@Thickness 25.4 mm	@Thickness 1.00 in	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	85.9 - 88.5 %	85.9 - 88.5 %	As remainder
Chromium, Cr	<= 0.04 %	<= 0.04 %	
Copper, Cu	2.0 - 2.6 %	2.0 - 2.6 %	
Iron, Fe	<= 0.15 %	<= 0.15 %	
Magnesium, Mg	1.8 - 2.3 %	1.8 - 2.3 %	
Manganese, Mn	<= 0.05 %	<= 0.05 %	
Other, each	<= 0.05 %	<= 0.05 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silicon, Si	<= 0.10 %	<= 0.10 %	
Titanium, Ti	<= 0.06 %	<= 0.06 %	
Zinc, Zn	7.6 - 8.4 %	7.6 - 8.4 %	
Zirconium, Zr	0.08 - 0.25 %	0.08 - 0.25 %	

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