



ALUMINIUM PLATE TYPE 7XXX THICKNESS 25 TO 305

Removal of stresses by traction for thicknesses falling between 25 and 200.

Removal of stresses by compression for thicknesses falling between 205 and 305.

Mechanical characteristics

Thickness mm	Guaranteed minimum			Typical values			Hardness HBS
	R _m MPa	R _{p0.2} Mpa	A %	R _m MPa	R _{p0.2} Mpa	A %	
From 25 to 75	445	400	7	470	430	12	160
From 76 to 127	420	380	7	450	410	10	140
From 128 to 152	400	350	7	430	380	10	140
From 153 to 203	395	350	6	420	360	9	140
From 204 to 254	390	330	5	420	360	9	140
From 255 to 305				400	340	5	130

Physical properties

Specific weight Kg/dm ³	Linear expansion coefficient (0-100°C) 10/°C	Thermal conductivity (0-100°C) W/m.°C	Specific heat J/kg.°C	Modulus of elasticity Mpa	Compression modulus Mpa	Poisson Ratio	Melting range °C
2,79	23,5	122	960	72.000	73.000	0,33	610-650

Technological suitabilities

Welding		Anodized	Mechanization	
Assembly (MIG-TIG)	B	For protection	B	Chip fragmentation
Filling (TIG)	MB	Decorative	avoid	Surface gloss
		Hard	MB	

Applications

Prototype moulds and medium-sized series for plastics' injection.

Moulds for blowing and thermoforming.

Machine elements etc.