

SSAB Tunplat Docol® 800 DP High-strength Steel

Category : Metal , Ferrous Metal , Alloy Steel , Low Alloy Steel

Material Notes:

Docol DP - Cold Rolled Steel - Extra high-strength steel (EHS). Property values are for cold-rolled steel; thicknesses 0.5 - 1.6 mm. Data provided by SSAB Tunplat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SSAB-Tunplat-Docol-800-DP-High-strength-Steel.php

Physical Properties	Metric	English	Comments
Density	7.87 g/cc	0.284 lb/in ³	Estimated by MatWeb

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	800 - 900 MPa	116000 - 131000 psi	
Tensile Strength, Yield	>= 650 MPa	>= 94300 psi	After bake hardening
	500 - 650 MPa	72500 - 94300 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	>= 8.0 %	>= 8.0 %	A _{>80}
Bend Radius, Minimum	>= 1.0 t	>= 1.0 t	t = 1.0 mm
	>= 2.0 t	>= 2.0 t	t = 1.5 mm

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.040 %	0.040 %	
Carbon, C	0.12 %	0.12 %	
Iron, Fe	98 %	98 %	As remainder
Manganese, Mn	1.5 %	1.5 %	
Niobium, Nb (Columbium, Cb)	0.015 %	0.015 %	
Phosphorous, P	0.015 %	0.015 %	
Silicon, Si	0.20 %	0.20 %	
Sulfur, S	0.0020 %	0.0020 %	

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