

SSAB Tunnplat Domex® 650MC HSLA Steel

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

Material Notes:

HSLA Steel Characteristics: Domex® MC grade steels conform to the provisions of EN 10149-2 standard and often have better properties. Property data is for hot-rolled steel.. Domex® is the brand name of hot rolled products from SSAB Tunnplat. Domex® cold-forming steels are modern structural steels. General use of Domex® high strength steels offers a number of benefits compared to ordinary structural steels: Lower weight, Simpler production, Lower creep rate, Longer useful life, Higher load-bearing capacity, Lower transport costs, Reduced stocks, Lower overall cost. Data provided by SSAB Tunnplat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SSAB-Tunnplat-Domex-650MC-HSLA-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	700 - 880 MPa	102000 - 128000 psi	
Tensile Strength, Yield	>= 650 MPa	>= 94300 psi	
Elongation at Break	>= 12 %	>= 12 %	A ₈₀
	@Thickness <=3.00 mm	@Thickness <=0.118 in	
	>= 14 %	>= 14 %	A ₅
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Impact	176	176	J/cm ² ; -20°C
	172	172	J/cm ²
Bend Radius, Minimum	@Temperature -40.0 °C	@Temperature -40.0 °F	
	>= 1.0 t	>= 1.0 t	t<3mm; internal bend radius, 90°
	>= 1.5 t	>= 1.5 t	3 mm < t< 6mm; internal bend radius, 90°
	>= 2.0 t	>= 2.0 t	t>6mm; internal bend radius, 90°

Component Elements Properties	Metric	English	Comments
Aluminum, Al	>= 0.015 %	>= 0.015 %	
Boron, B	<= 0.0050 %	<= 0.0050 %	
Carbon, C	<= 0.12 %	<= 0.12 %	

Component Elements Properties	Metric	English	Comments
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Molybdenum, Mo	<= 0.50 %	<= 0.50 %	
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	<= 0.30 %	<= 0.30 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	

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