

SSAB Tunnplat Domex® 420MC HSLA Steel

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

Material Notes:

HSLA Steel Characteristics: Some thicknesses of these steel grades are available with a maximum of 0.03% Si for thin Zn coating. If the material is to be hot-dip galvanized and steel with a maximum Si content of 0.03% is not available, the silicon content should be 0.2%..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-420MC-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	480 - 620 MPa	69600 - 89900 psi	
Tensile Strength, Yield	>= 420 MPa	>= 60900 psi	
Elongation at Break	>= 16 %	>= 16 %	A _{>80}
	@Thickness <=3.00 mm	@Thickness <=0.118 in	
	>= 20 %	>= 20 %	A _{>5}
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Bend Radius, Minimum	>= 0.50 t	>= 0.50 t	t<3mm; internal bend radius, 90°
	>= 1.0 t	>= 1.0 t	3 mm < t< 6mm; internal bend radius, 90°
	>= 1.0 t	>= 1.0 t	t>6mm; internal bend radius, 90°

Component Elements Properties	Metric	English	Comments
Aluminum, Al	>= 0.015 %	>= 0.015 %	
Carbon, C	<= 0.10 %	<= 0.10 %	
Iron, Fe	98 %	98 %	As remainder
Manganese, Mn	<= 1.5 %	<= 1.5 %	
Niobium, Nb (Columbium, Cb)	<= 0.090 %	<= 0.090 %	

Component Elements Properties	Metric	English	Comments
Silicon, Si	<= 0.30 %	<= 0.30 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	
Titanium, Ti	<= 0.15 %	<= 0.15 %	
Vanadium, V	<= 0.20 %	<= 0.20 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China