

## SSAB Tunplatt Domex® 460MC 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. Iron content is approximate - exact value is not reported by the manufacturer. Domex® is the brand name of hot rolled products from SSAB Tunplatt. 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 Tunplatt.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SSAB-Tunplatt-Domex-460MC-HSLA-Steel.php](http://www.lookpolymers.com/polymer_SSAB-Tunplatt-Domex-460MC-HSLA-Steel.php)

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	520 - 670 MPa	75400 - 97200 psi	
Tensile Strength, Yield	>= 460 MPa	>= 66700 psi	
Elongation at Break	>= 15 % @Thickness >=3.00 mm	>= 15 % @Thickness >=0.118 in	A <sub>80</sub>
	>= 19 % @Thickness >=3.00 mm	>= 19 % @Thickness >=0.118 in	A <sub>5</sub>
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°
	>= 1.4 t	>= 1.4 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 15 %	English 5 %	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.

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