

## SSAB Tunnplat Domex® 355MC HSLA Steel

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

### Material Notes:

HSLA Steel Characteristics: For hot-dip galvanizing, a thin Zn coating (50-80 microns) is specified. 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-355MC-HSLA-Steel.php](http://www.lookpolymers.com/polymer_SSAB-Tunnplat-Domex-355MC-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	430 - 550 MPa	62400 - 79800 psi	
Tensile Strength, Yield	>= 355 MPa	>= 51500 psi	
Elongation at Break	>= 19 % @Thickness <=3.00 mm	>= 19 % @Thickness <=0.118 in	A <sub>80</sub>
	>= 23 % @Thickness >=3.00 mm	>= 23 % @Thickness >=0.118 in	A <sub>5</sub>
Impact	133	133	J/cm <sup>2</sup> ; -20°C
	99.0 @Temperature -40.0 °C	99.0 @Temperature -40.0 °F	J/cm <sup>2</sup>
Bend Radius, Minimum	>= 0.25 t	>= 0.25 t	t<3mm; internal bend radius, 90°
	>= 0.50 t	>= 0.50 t	3 mm < t < 6mm; internal bend radius, 90°
	>= 0.80 t	>= 0.80 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 Component Elements Properties	98 % Metric	98 % English	As remainder Comments
Manganese, Mn	<= 1.5 %	<= 1.5 %	
Niobium, Nb (Columbium, Cb)	<= 0.090 %	<= 0.090 %	
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	<= 0.030 %	<= 0.030 %	
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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