

## SSAB Tunnplat Domex® 600MC 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-600MC-HSLA-Steel.php](http://www.lookpolymers.com/polymer_SSAB-Tunnplat-Domex-600MC-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	650 - 820 MPa	94300 - 119000 psi	
Tensile Strength, Yield	>= 600 MPa	>= 87000 psi	
Elongation at Break	>= 13 %	>= 13 %	A <sub>80</sub>
	@Thickness <=3.00 mm	@Thickness <=0.118 in	
	>= 16 %	>= 16 %	A <sub>5</sub>
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Bend Radius, Minimum	>= 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°
	>= 1.8 t	>= 1.8 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 %	
Iron, Fe	97 %	97 %	As remainder
Manganese, Mn	<= 1.9 %	<= 1.9 %	
Molybdenum, Mo	<= 0.50 %	<= 0.50 %	

Phosphorous P Component Elements Properties	<= 0.025 % Metric	<= 0.025 % English	Comments
Silicon, Si	<= 0.30 %	<= 0.30 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	

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