

## AK Steel ASTM A 1011, Class 1 Formable, Grade 50K Hot Rolled Carbon Steel, Medium/High Strength Low Alloy Steel (HSLA)

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

**Material Notes:**

Information provided by AK Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_AK-Steel-ASTM-A-1011-Class-1-Formable-Grade-50K-Hot-Rolled-Carbon-Steel-MediumHigh-Strength-Low-Alloy-Steel-HSLA.php](http://www.lookpolymers.com/polymer_AK-Steel-ASTM-A-1011-Class-1-Formable-Grade-50K-Hot-Rolled-Carbon-Steel-MediumHigh-Strength-Low-Alloy-Steel-HSLA.php)

Physical Properties	Metric	English	Comments
Density	7.87 g/cc	0.284 lb/in <sup>3</sup>	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 450 MPa	>= 65300 psi	
Tensile Strength, Yield	>= 340 MPa	>= 49300 psi	
Elongation at Break	>= 22 %	>= 22 %	
Modulus of Elasticity	200 GPa	29000 ksi	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	12.4 µm/m-°C	6.89 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Specific Heat Capacity	0.481 J/g-°C	0.115 BTU/lb-°F	
	@Temperature 50.0 - 100 °C	@Temperature 122 - 212 °F	
Thermal Conductivity	89.0 W/m-K	618 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000142 ohm-cm	0.000142 ohm-cm	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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