

## AK Steel ASTM A 715 Class 2 Formable, Grade 50F Hot Rolled Carbon Steel, Medium/High Strength Low Alloy (HSLA)

Category : Metal , Ferrous Metal , Carbon Steel , Low Carbon Steel

### Material Notes:

ASTM A 715 is for Hot Rolled and Cold Rolled grades. AK Steel produces Type 1 (columbium bearing only), Class 2 limits only C and has a 10 ksi difference between the minimum specified YS and UTS. AK Steel Formable Grade - F indicates inclusion controlled low alloy. Information provided by AK Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_AK-Steel-ASTM-A-715-Class-2-Formable-Grade-50F-Hot-Rolled-Carbon-Steel-MediumHigh-Strength-Low-Alloy-HSLA.php](http://www.lookpolymers.com/polymer_AK-Steel-ASTM-A-715-Class-2-Formable-Grade-50F-Hot-Rolled-Carbon-Steel-MediumHigh-Strength-Low-Alloy-HSLA.php)

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 410 MPa	>= 59500 psi	
Tensile Strength, Yield	>= 340 MPa	>= 49300 psi	
Elongation at Break	>= 24 %	>= 24 %	
Modulus of Elasticity	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.4 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	6.89 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 100 $^{\circ}\text{C}$	@Temperature 68.0 - 212 $^{\circ}\text{F}$	
Specific Heat Capacity	0.481 J/g- $^{\circ}\text{C}$	0.115 BTU/lb- $^{\circ}\text{F}$	
	@Temperature 50.0 - 100 $^{\circ}\text{C}$	@Temperature 122 - 212 $^{\circ}\text{F}$	
Thermal Conductivity	89.0 W/m-K	618 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000142 ohm-cm	0.0000142 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China