

## AK Steel ZINCGRIP® ELECTRASMOOTH® Electrogalvanized Carbon Steel, Extra Deep Drawing Steel Plus (EDDS+), Standard Grade

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

### Material Notes:

Interstitial Free (I-F) steels are made by adding titanium to the molten steel after degassing and offer excellent drawability. Information provided by AK Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_AK-Steel-ZINCGRIP-ELECTRASMOOTH-Electrogalvanized-Carbon-Steel-Extra-Deep-Drawing-Steel-Plus-EDDS-Standard-Grade.php](http://www.lookpolymers.com/polymer_AK-Steel-ZINCGRIP-ELECTRASMOOTH-Electrogalvanized-Carbon-Steel-Extra-Deep-Drawing-Steel-Plus-EDDS-Standard-Grade.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	310 MPa	45000 psi	.0275 - .035 inches sheet thickness; ASTM A 370
Tensile Strength, Yield	169 MPa	24500 psi	.0275 - .035 inches sheet thickness; ASTM A 370
Elongation at Break	46 %	46 %	.0275 - .035 inches sheet thickness; ASTM A 370
Modulus of Elasticity	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.9 $\mu\text{m}/\text{m}\cdot\text{C}$	7.17 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@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	93.0 W/m-K	645 BTU-in/hr-ft <sup>2</sup> -°F	

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

Descriptive Properties	Value	Comments
Deep-Drawing Capability $r_m$	1.9	.0275 - .035 inches sheet thickness
Strain Hardening Exponent $n$	0.24	.0275 - .035 inches sheet thickness

## **Contact Songhan Plastic Technology Co.,Ltd.**

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