

AK Steel ZINCGRIP® ELECTRASMOOTH® Electrogalvanized Carbon Steel, Extra Deep Drawing Steel (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-EDDS-Standard-Grade.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	317 MPa	46000 psi	.0275 - .035 inches sheet thickness; ASTM A 370
Tensile Strength, Yield	176 MPa	25500 psi	.0275 - .035 inches sheet thickness; ASTM A 370
Elongation at Break	45 %	45 %	.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 ² -°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	0.23	.0275 - .035 inches sheet thickness

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