

## ArcelorMittal 260 BH Bake hardening steel, Cold rolled

Category : Metal , Ferrous Metal , Alloy Steel

### Material Notes:

Available in the following: uncoated (HC260B), electroglvanized (HC260B+ZE) and Extragal®/Galvannealed (HC260BD+Z) Description: The composition and processing of these steels are designed to promote a significant increase in yield strength during low-temperature heat treatment, particularly paint curing. ArcelorMittal Bake hardening steels can thus achieve higher strength in the finished part while retaining good forming performance. The gain in yield strength through the "bake hardening" (BH) effect is generally greater than 40 MPa. Thanks to this BH effect, ArcelorMittal steels offer two advantages compared to conventional drawing quality steels: Improved dent resistance in all finished parts in the case of low forming strains (hood, roof, doors and wings); Substantial weight reduction potential at equivalent dent resistance (the decrease in thickness is offset by increased yield strength resulting from the heat treatment process). Bake hardening steels thus offer a suitable response to automotive bodywork requirements. By providing an excellent drawability-dent resistance combination, they enhance vehicle weight reduction and aesthetics. Applications: Steels in the BH range are designed for visible (door, hood, tailgate, front wing, roof) and structural (underbody, reinforcement, cross member, lining) parts Information provided by ArcelorMittal

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ArcelorMittal-260-BH-Bake-hardening-steel-Cold-rolled.php](http://www.lookpolymers.com/polymer_ArcelorMittal-260-BH-Bake-hardening-steel-Cold-rolled.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	370 - 430 MPa	53700 - 62400 psi	
Tensile Strength, Yield	260 - 300 MPa	37700 - 43500 psi	
Elongation at Break	>= 20 %	>= 20 %	L<Sub>0</sub>=80 mm, th<3 mm
Fatigue Strength	<= 352 MPa	<= 51100 psi	after 2% elongation and heat treatment
	@# of Cycles 1.00e+8	@# of Cycles 1.00e+8	
	<= 355 MPa	<= 51500 psi	after 2% elongation and heat treatment
	@# of Cycles 5.00e+6	@# of Cycles 5.00e+6	
	<= 360 MPa	<= 52200 psi	after 2% elongation and heat treatment
	@# of Cycles 1.00e+7	@# of Cycles 1.00e+7	
	<= 400 MPa	<= 58000 psi	after 2% elongation and heat treatment
	@# of Cycles 1.00e+6	@# of Cycles 1.00e+6	
	<= 384 MPa	<= 55700 psi	
	@Thickness 1.20 mm, # of Cycles 1.00e+7	@Thickness 0.0472 in, # of Cycles 1.00e+7	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.080 %	<= 0.080 %	

Component Elements Properties	Metric 2 %	English 2 %	Comments
Manganese, Mn	<= 0.70 %	<= 0.70 %	
Silicon, Si	<= 0.50 %	<= 0.50 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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