

Bohler-Uddeholm BÖHLER RAMAX® HH Modified 420F

Category : Metal , Ferrous Metal , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

Chromium alloyed steel Typical applications for Ramax® HH are: holders and bolsters for plastic molds, plastic and rubber molds with low requirements on polishability, and dies for plastic extrusion. RAMAX® HH is characterized by: Excellent machinability Good corrosion resistance Good hardenability Uniform hardness in all directions Good indentation resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bohler-Uddeholm-BHLER-RAMAX-HH-Modified-420F.php

Physical Properties	Metric	English	Comments
Density	7.75 g/cc	0.280 lb/in ³	hardened and tempered to 350 HB

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	340	340	Hardened and tempered (Delivery condition)
	275 - 475	275 - 475	tempering temp 390-1110°F
Tensile Strength, Ultimate	1140 MPa	165000 psi	(hardened to 350 HB)
	1020 MPa @Temperature 199 °C	148000 psi @Temperature 390 °F	(hardened to 350 HB)
Tensile Strength, Yield	993 MPa @Strain 0.200 %	144000 psi @Strain 0.200 %	68°F (hardened to 350 HB)
	917 MPa @Strain 0.200 %, Temperature 199 °C	133000 psi @Strain 0.200 %, Temperature 390 °F	hardened to 350 HB
Elongation at Break	12 %	12 %	(hardened to 350 HB)
	10 % @Temperature 199 °C	10 % @Temperature 390 °F	hardened to 350 HB
Reduction of Area	46 % @Temperature 20.0 °C	46 % @Temperature 68.0 °F	hardened to 350 HB
	48 % @Temperature 199 °C	48 % @Temperature 390 °F	hardened to 350 HB
Modulus of Elasticity	215 GPa	31200 ksi	68°F, (hardened and tempered to 350 HB)
	205 GPa	29700 ksi	hardened and tempered to 350 HB

Mechanical Properties	@Temperature 199 °C Metric	@Temperature 390 °F English	Comments
Impact Test	180 J	133 ft-lb	unnotched

Thermal Properties	Metric	English	Comments
CTE, linear	10.8 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	6.00 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	hardened and tempered to 350 HB
	@Temperature 199 °C	@Temperature 390 °F	
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	hardened and tempered to 350 HB
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	24.0 W/m-K	167 BTU-in/hr-ft ² -°F	hardened and tempered to 350 HB
	@Temperature 199 °C	@Temperature 390 °F	

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