

Schmolz + Bickenbach CorroPlast® Plastic Mold Steel

Category : Metal , Ferrous Metal , Tool Steel , Mold Steel

Material Notes:

Description: CorroPlast® is a pre-hardened, free-machining 400 series stainless steel, specifically developed for mold bases for processing plastic; and Supplied in the pre-hardened condition with a hardnessCharacteristics: Excellent machinability; Excellent dimensional stability; Good resistance to corrosion (e.g. PVC); Good thermal conductivity; and Good weldabilityApplications: Mold bases for processing corrosive plastics and Mold inserts for processing corrosive plastics with standard requirements for polishability.Information provided by Schmolz + Bickenbach

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schmolz-Bickenbach-CorroPlast-Plastic-Mold-Steel.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	34	34	
Tensile Strength	1100 MPa	160000 psi	
Tensile Strength, Yield	889 MPa @Strain 0.200 %	129000 psi @Strain 0.200 %	
Elongation at Yield	13 %	13 %	

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 µm/m-°C @Temperature 21.1 - 93.3 °C	5.00 µin/in-°F @Temperature 70.0 - 200 °F	
	10.6 µm/m-°C @Temperature 21.1 - 204 °C	5.90 µin/in-°F @Temperature 70.0 - 400 °F	
	11.3 µm/m-°C @Temperature 21.1 - 399 °C	6.30 µin/in-°F @Temperature 70.0 - 750 °F	
Thermal Conductivity	21.8 W/m-K @Temperature 21.1 °C	151 BTU-in/hr-ft ² -°F @Temperature 70.0 °F	
	22.5 W/m-K @Temperature 149 °C	156 BTU-in/hr-ft ² -°F @Temperature 300 °F	

Thermal Properties	23.8 W/m-K Metric	165 BTU-in/hr-ft ² -°F English	Comments
	@Temperature 343 °C	@Temperature 650 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	12.5 %	12.5 %	
Iron, Fe	86 %	86 %	
Manganese, Mn	1.3 %	1.3 %	
Sulfur, S	0.15 %	0.15 %	

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