



LKM P20M

塑胶模具钢

Plastic Mould Steel

预硬材料 Prehardened Steel

中大型模架 Medium to Big Size Mould Base



LKM P20M 简介 Introduction

LKM P20M是参照美国AISI P20标准并在成份上作出调整，所开发之预加硬塑胶模具，通过严格的质量体系，确保品质符合相关标准之要求。

LKM P20M主要用于一般要求之塑胶模具、塑胶模具下模件、高强度要求之模架。

LKM P20M is a pre-hardened plastic mould steel developed with reference to the US standard AISI P20 with adjustments in chemical composition. It is subject to strict quality control to ensure that the requirements of the related standard are met.

LKM P20M is mainly used for general requirement of the plastic injection mould, core/movable part of plastic injection mould and mould base with high strength requirement.

供货状态 (原材表面硬度) Delivered Hardness From Steel Mill (Measured at Surface)

LKM P20M

预硬至HB260-350 Prehardened to HB260-350

参照标准

Q AISI P20改良型

Comparable Standard

Q AISI P20 Modified

化学成分(%) Chemical Composition (Percentage by Mass)

未公开 Undisclosed

应用

- ✓ 长期生产之塑胶模模架
- ✓ 中小批量之塑胶模下模件
- ✓ 压铸模架

Application

- ✓ Mould base/plate with high strength requirement for plastic injection mould
- ✓ Core/movable part of plastic injection mould without high surface finish requirement
- ✓ Mould base for die casting die

物理性能 Physical Properties

温度(°C) Temperature	20-100	20-200	20-300
热膨胀系数 [10 ⁻⁶ m/(m x K)] Coefficient of Thermal Expansion	11.1	12.9	13.4

温度(°C) Temperature	20	200	300
热传导率 [W/(m x K)] Thermal Conductivity	34.2	33.8	32.0

▶▶ 纯洁度 Purity

A (硫化物类) Sulfide Type	B (氧化铝类) Alumina Type	C (硅酸盐类) Silicate Type	D (球状氧化物类) Globular Oxide Type
≤1.5	≤2.0	≤2.0	≤2.0

▶▶ 超声波检测

☞ SEP 1921-Test Group 3, Class D/d

▶▶ Ultrasonic Testing

☞ SEP 1921- Test Group 3, Class D/d

▶▶ 表面处理

☞ 可以透过氮化提高模具表面硬度，但其氮化温度建议不应高于500°C。如需进一步查询，请联系本司。

▶▶ Surface Treatment

☞ Suitable for nitriding process to increase surface hardness of the mould. The nitriding temperature is recommended to be held below 500°C. Please contact our company for further inquiry.



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