

ALIMEX ACP 5080R Aluminum Cast Material

Category : Metal , Nonferrous Metal , Aluminum Alloy , 5000 Series Aluminum Alloy , Aluminum Casting Alloy

Material Notes:

Sizes range availability along with good mechanical and physical properties of ACP 5080R provide the Mold Tool Industry tooling materials solutions for the most challenging applications. Information provided by ALIMEX GmbH Homogenized and stress relieved

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALIMEX-ACP-5080R-Aluminum-Cast-Material.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 2.66 g/cc | 0.0960 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------------|------------------------------|----------|
| Hardness, Brinell | 70 | 70 | |
| Tensile Strength, Ultimate | 290 MPa | 42100 psi | Rm |
| Tensile Strength, Yield | 130 MPa @Strain 0.200 % | 18900 psi @Strain 0.200 % | |
| Elongation at Break | 16 % | 16 % | |
| Modulus of Elasticity | 70.0 GPa | 10200 ksi | |

| Thermal Properties | Metric | English | Comments |
|----------------------|--------------------------------------|---|----------|
| CTE, linear | 24.3 μm/m-°C @Temperature 20.0 °C | 13.5 μin/in-°F @Temperature 68.0 °F | |
| Thermal Conductivity | 109 - 140 W/m-K | 756 - 972 BTU-in/hr-ft ² -°F | |

| Electrical Properties | Metric | English | Comments |
|------------------------|--------------------|--------------------|----------|
| Electrical Resistivity | 0.000004914 ohm-cm | 0.000004914 ohm-cm | |

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