# Constellium PLAN OX 5754 Aluminum Rolled Plate

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

**Material Notes:**

Rolled plates in 5754 PLAN OX are optimized for minimum residual stress, improved dimensional tolerances and for decorative* anodizing. 5754 PLAN OX is mainly used for low stressed, anodized components. Typical applications include front plates, side walls and other visible machine parts.Information provided by manufacturer

Order this product through the following link:
http://www.lookpolymers.com/polymer_Constellium-PLAN-OX-5754-Aluminum-Rolled-Plate.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 2.67 g/cc | 0.0965 lb/in³ | |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Hardness, Brinell | 76<br>@Thickness 20.0 - 150 mm | 76<br>@Thickness 0.787 - 5.91 in | |
| | 77<br>@Thickness 4.00 - 20.0 mm | 77<br>@Thickness 0.157 - 0.787 in | |
| Tensile Strength | 190 - 240 MPa<br>@Thickness 4.00 - 12.5 mm | 27600 - 34800 psi<br>@Thickness 0.157 - 0.492 in | Temper H111; Standard EN 485-2 |
| | >= 255 MPa<br>@Thickness 12.5 - 100 mm | >= 37000 psi<br>@Thickness 0.492 - 3.94 in | Temper H111; Standard EN 485-2 |
| | 295 MPa<br>@Thickness 4.00 - 20.0 mm | 42800 psi<br>@Thickness 0.157 - 0.787 in | Typical Strength |
| | 295 MPa<br>@Thickness 20.0 - 150 mm | 42800 psi<br>@Thickness 0.787 - 5.91 in | Typical Strength |
| Tensile Strength, Yield | >= 80.0 MPa<br>@Strain 0.200 %, Thickness 4.00 - 12.5 mm | >= 11600 psi<br>@Strain 0.200 %, Thickness 0.157 - 0.492 in | Temper H111; Standard EN 485-2 |
| | >= 105 MPa<br>@Strain 0.200 %, Thickness 12.5 - 100 | >= 15200 psi<br>@Strain 0.200 %, Thickness 0.492 - 3.94 | Temper H111; Standard EN 485-2 |

| Mechanical Properties | Metric<br>mm | English<br>in | Comments |
|---|---|---|---|
| | 140 MPa<br>@Strain 0.200 %, Thickness 20.0 - 150 mm | 20300 psi<br>@Strain 0.200 %, Thickness 0.787 - 5.91 in | Typical Strength |
| | 150 MPa<br>@Strain 0.200 %, Thickness 4.00 - 20.0 mm | 21800 psi<br>@Strain 0.200 %, Thickness 0.157 - 0.787 in | Typical Strength |
| Elongation at Break | >= 12 %<br>@Thickness 12.5 - 100 mm | >= 12 %<br>@Thickness 0.492 - 3.94 in | Temper H111; Standard EN 485-2 |
| | >= 18 %<br>@Thickness 4.00 - 12.5 mm | >= 18 %<br>@Thickness 0.157 - 0.492 in | Temper H111; Standard EN 485-2 |
| | 22 %<br>@Thickness 20.0 - 150 mm | 22 %<br>@Thickness 0.787 - 5.91 in | Typical Elongation |
| | 23 %<br>@Thickness 4.00 - 20.0 mm | 23 %<br>@Thickness 0.157 - 0.787 in | Typical Elongation |
| Modulus of Elasticity | 70.0 GPa | 10200 ksi | |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| CTE, linear | 23.8 µm/m-°C<br>@Temperature 20.0 - 100 °C | 13.2 µin/in-°F<br>@Temperature 68.0 - 212 °F | |
| Thermal Conductivity | 130 - 140 W/m-K | 902 - 972 BTU-in/hr-ft²-°F | |

| Component Elements Properties | Metric | English | Comments |
|---|---|---|---|
| Aluminum, Al | 94.35 - 97.4 % | 94.35 - 97.4 % | as balance |
| Chromium, Cr | <= 0.30 % | <= 0.30 % | |
| Copper, Cu | <= 0.10 % | <= 0.10 % | |
| Iron, Fe | <= 0.40 % | <= 0.40 % | |
| Magnesium, Mg | 2.6 - 3.6 % | 2.6 - 3.6 % | |
| Manganese, Mn | <= 0.50 % | <= 0.50 % | |

| Component Elements Properties | Metric | English | Comments |
|---|---|---|---|
| Silicon, Si | <= 0.40 % | <= 0.40 % | |
| Zinc, Zn | <= 0.20 % | <= 0.20 % | |
| Zr+Ti | <= 0.15 % | <= 0.15 % | |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Electrical Resistivity | 0.00000400 - 0.00000520 ohm-cm | 0.00000400 - 0.00000520 ohm-cm | |

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