

Technical Data Sheet

MilRexTM PP Sheet M-131PP

1. Description

MilRexTM PP Sheet is highly rigid, display very good weldability and it resists corrosion and UV.

2. Product Code

M-131PP

General properties

3. Density (Property test method)

>0,91 g/cm³ (DIN EN ISO 1183-1)

4. Water absorption (Property test method)

<0,1% (DIN EN ISO 62)

5. Flammability (Thickness 3mm/6mm) (UL 94)

HB

Mechanical properties

6. Yield stress (Property test method)

>23 MPa (DIN EN ISO 527)

7. Elongation @ Break (Property test method)

>50% (DIN EN ISO 527)

8. Tensile modulus of elasticity (Property test method)

>1100Mpa (DIN EN ISO 527)

9. Notched impact strength (Property test method)

>30 kJ/m² (DIN EN ISO 179)

10. Shore hardness (Property test method)

>65 scale D (DIN EN ISO 868)

Thermal properties

11. Melting temperature (Property test method)

162 ...165 deg C (ISO 11357-3)

12. Thermal conductivity (Property test method)

0,20 W / (m*K) (DIN 52612-1)

13. Thermal capacity (Property test method)

1,70 kJ (kg*K) (DIN 52612)

14. Coefficient of linear thermal expansion (Property test method)

120...190 10⁻⁶(to power of -6)/K (DIN 5352)

15. Service temperature, long term (Property test method)

-30 ...100 deg C average

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16. Service temperature, short term (max.) (Property test method)

150 deg C average

17. Vicat softening temperature (Property test method)

85 deg C (DIN EN ISO 306, Vicat B)

Electrical properties

18. Dielectric constant (Property test method)

2,5 (IEC 60250)

19. Dielectric dissipation Factor (10(to power of 6) Hz) (Property test method)

0,00019 (IEC 60250)

20. Volume resistivity (Property test method)

>10 (to power of 14) Ohm*cm (DIN EN 62631-3-1)

21. Note

1. We strongly believe that our products sold should be tested thoroughly under end-use conditions to ensure they meet the requirements of your application.
2. We suggest that you clean thoroughly the surfaces to which the product will be applied from dust, grease or any contamination. Failing to do so could affect the adhesion strength of the product. Before you apply the product on freshly lacquered or painted surfaces, ensure that the surfaces are completely dried and cured.
3. We offer the test data and test results for your general information only. We do not recommend that you use this information for designs and specifications, or on as meeting specified performance criteria. If you are seeking to develop specifications or performance criteria for a specific product application, please call us for further information.
4. Our product compliance information is drawn from:
 - (a) test results conducted by a third party, independent laboratory using established methods, or
 - (b) information offered by the respective manufacturer or supplier.

Thus, we do not represent nor warrant (express or implied), nor do we assume liability in connection with the use of this information.

22. Warranty

1. We guarantee our products to be free from manufacturing defects for one (1) year from the date of purchase. We shall, at our option, replace the product found to be defective within this warranty period.
2. This warranty extends to the original buyer of this product only. All others are not eligible to return products to us for warranty consideration.
3. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on our part.

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4. In no event shall we be held responsible or liable for any loss, damage, expense, or incidental or consequential damages of any kind arising in connection with the use, or inability to use, our products.
5. We require that samples of the failure be submitted when a claim is made and before a remedy is offered