

Plexus®PU3030FR

Low density anti-fire two-component PU- Hybrid potting materials

PRODUCT DESCRIPTION

Plexus®PU3030FR is a 100% solid content of two-component PU anti-fire potting adhesive. It has excellent low viscosity and sealing performance. After curing, it is flexible and has excellent impact resistance and excellent ageing-resistant performance. The product processes a very low and stable dielectric constant over a wide variety of frequencies and broad temperature range. It is suitable for potting and sealing in electrical、battery module、Control circuit board and other industries. Temperature range of use:-60℃~135℃.

PRODUCT FEATURES:

Low viscosity and Sealing performance
Low Modulus
High temperature resistance
Excellent electrical properties
Excellent fire-retardant
Excellent impact resistance

ELECTRICAL PROPERTIES

Volume resistance, $\Omega \cdot \text{cm}$ $>1 \times 10^{13}$
Insulation resistance@23℃, $10^3 \text{ M}\Omega$ 1860

CAUTIONS

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

TYPICAL PROPERTIES OF UNCURED MATERIALS

Part A:

Color: Grey
Density @ 23 °C, g/m³ 1.15 ± 0.05
Viscosity(23℃), mpa.s 3000~5000

Part B:

Color: Yellow-brown
Density @ 23 °C, g/m³ 1.10 ± 0.05
Viscosity(23℃), mpa.s 2000~4000

Mixed:

Color: Grey
Mix ratio by weight,
Part A : Part B 100:48
Mix ratio by volume,
Part A : Part B 100:50
Mixed viscosity,
(23℃), mpa.s 2500~4500
Working time,70g 20mins @RT
Curing time 12-24hours @RT
Final hardness 14days @RT

PHYSICAL PROPERTIES (Cured)

Hardness, Shore A 30-60
Lap shear strength,MPa
AL//AL, ASTM 1002 1.0-3.0
180° peel strength.AL-Plastic
film,GB/T2790,N/mm 0.5-2.0
Elongation at break,% >100

STORAGE

Store the unopened product in a cool, dry, well ventilated location away from sources of heat. Optimal storage temperatures should range under 30℃(86° F) and 50% RH.

CONVERSIONS

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
 $\mu\text{m} / 25.4 = \text{mil}$
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = Cp

WARRANTY

ITW will replace any material found to be defective. Because the storage, handling and application of this material are beyond our control, we can accept no liability for the results obtained.

NOTE

Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company.

This Test Report is issued by the Company under its Controlled Laboratory Conditions of Testing enclosed in the report, which cannot fully reflect the customer's actual operating conditions and is only for the customer as a reference.

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For technical assistance, please call:

China: 86-21-54265119

FOR INDUSTRIAL USE ONLY

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