

ForTii® JTX2 PPA-GF30

30% Glass Reinforced, PA4T, Electro-friendly

Print Date: 2024-09-17

For Tii® JTX2 has robust mechanical performance and has good reliability in thermal ageing and mechanical shocks. JTX2 has consistent performance in injection molding processing and a low risk of blistering due to its JEDEC MLS 1 rating for specified thicknesses. JTX2 is the best candidate for HB reflow headers/connectors in (automotive) electronics.

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|------------------------------|---------------|------|--------------|
| RHEOLOGICAL PROPERTIES | DRY / COND | | |
| Molding shrinkage (parallel) | 0.4 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 1.2 / * | % | ISO 294-4 |
| | | | |
| MECHANICAL PROPERTIES | DRY / COND | | |
| Tensile modulus | 11300 / 11500 | MPa | ISO 527-1/-2 |
| Tensile modulus (80°C) | 10500 / 6200 | MPa | ISO 527-1/-2 |
| Tensile modulus (120°C) | 8000 / - | MPa | ISO 527-1/-2 |
| Tensile modulus (160°C) | 4500 | MPa | ISO 527-1/-2 |
| Tensile modulus (200°C) | 4000 | MPa | ISO 527-1/-2 |
| Stress at break | 200 / 180 | MPa | ISO 527-1/-2 |
| Stress at break (80°C) | 180 / 95 | MPa | ISO 527-1/-2 |
| Stress at break (120°C) | 135 / – | MPa | ISO 527-1/-2 |
| Stress at break (160°C) | 90 | MPa | ISO 527-1/-2 |
| Stress at break (200°C) | 75 | MPa | ISO 527-1/-2 |
| Strain at break | 2.2 / 2 | % | ISO 527-1/-2 |
| Strain at break (80°C) | 2.6 / 6 | % | ISO 527-1/-2 |
| Strain at break (120°C) | 4.3 / – | % | ISO 527-1/-2 |
| Strain at break (160°C) | 6 | % | ISO 527-1/-2 |
| Strain at break (200°C) | 6 | % | ISO 527-1/-2 |

All the trademarks mentioned here are trademarks of Envalion

All the trademarks mentioned here are trademarks of Envalior. Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

Copyright © Envalior 2024. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.

Property Data

ForTii® JTX2

Print Date: 2024-09-17

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|---------------|--------|---------------------------|
| Flexural modulus | 10500 / 11000 | MPa | ISO 178 |
| Flexural strength | 300 / 270 | MPa | ISO 178 |
| Flexural modulus (120°C) | 7500 | MPa | ISO 178 |
| Flexural modulus (160°C) | 4500 | MPa | ISO 178 |
| Flexural modulus (200°C) | 4000 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 60 / 50 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 55 / 45 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 10 / 9 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 10 / 9 | kJ/m² | ISO 179/1eA |
| THERMAL PROPERTIES | DRY / COND | | |
| Melting temperature (10°C/min) | 325 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 305 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.18 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.6 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.33 | E-4/°C | ASTM D696 |
| Coeff. of linear therm. expansion (normal) | 0.4 | E-4/°C | ASTM D696 |
| Burning Behav. at 3.0 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 3 / * | mm | IEC 60695-11-10 |
| UL recognition | Yes / * | _ | _ |
| Thermal Index 5000 hrs | 167 | °C | IEC 60216/ISO 527-1/-2 |
| ELECTRICAL PROPERTIES | DRY / COND | | |
| Volume resistivity | >1E13 / >1E13 | Ohm*m | IEC 62631-3-1 |
| Electric strength | 43 / 40 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 / – | V | IEC 60112 |
| Relative permittivity (100Hz) | 5/5 | _ | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 4.5 / 4.5 | _ | IEC 62631-2-1 |

All the trademarks mentioned here are trademarks of Envalior.

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Oustomer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical Values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

Copyright © Envalior 2024. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.

Property Data

ForTii® JTX2

Print Date: 2024-09-17

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|-------------------------------|--------------|-------|-----------------|
| 5.1.1. | 00/4 | | TEO 04400 0 704 |
| Relative permittivity (1GHz) | 3.9 / 4 | _ | IEC 61189-2-721 |
| Relative permittivity (10GHz) | 3.8 / 3.9 | _ | IEC 61189-2-721 |
| | | | |
| OTHER PROPERTIES | DRY / COND | | |
| Humidity absorption | 2/* | % | Sim. to ISO 62 |
| Density | 1430 / - | kg/m³ | ISO 1183 |

All the trademarks mentioned here are trademarks of Envalior.

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Oustomer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical Values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

Copyright © Envalior 2024. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.