

Arnitel® ID 2060-HT

TPC

3D printing grade, 100% Recyclable, for High Temperature Applications

Print Date: 2019-09-11



Upper figure: Flat X-X Direction

Lower figure: Flat Y-X Direction

| Properties | Typical Data | Unit | Test Method |
|---|--------------|--------------|----------------|
| Mechanical properties | | Value | |
| Tensile modulus (3D printed: flat X-X direction) | 230 | MPa | ISO 527-1/-2 |
| Stress at break (3D printed: flat X-X direction) | 21 | MPa | ISO 527-1/-2 |
| Strain at break (3D printed: flat X-X direction) | 245 | % | ISO 527-1/-2 |
| Tensile modulus (3D printed: on-edge X-Z direction) | 240 | MPa | ISO 527-1/-2 |
| Stress at break (3D printed: on-edge X-Z direction) | 35 | MPa | ISO 527-1/-2 |
| Strain at break (3D printed: on-edge X-Z direction) | 510 | % | ISO 527-1/-2 |
| Tensile modulus (3D printed: upright Z direction) | 220 | MPa | ISO 527-1/-2 |
| Stress at break (3D printed: upright Z direction) | 20 | MPa | ISO 527-1/-2 |
| Strain at break (3D printed: upright Z direction) | 55 | % | ISO 527-1/-2 |
| Thermal properties | | Value | |
| Melting temperature (10°C/min) | 208 | °C | ISO 11357-1/-3 |
| Glass transition temperature (10°C/min) | -10 | °C | ISO 11357-1/-2 |
| Vicat softening temperature (50°C/h 10N) | 190 | °C | ISO 306 |
| Vicat softening temperature (50°C/h 50N) | 90 | °C | ISO 306 |

Akulon®, Arnite®, Arnitel®, EcoPaXX®, ForTii®, Novamid®, Stanyl® and Xytron™ are trademarks of DSM.

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information, or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequences from the use of all such information.

Typical values are indicative only and are not to be construed as being binding specifications. This document replaces all previous versions relating to this subject.

Copyright © DSM 2018. 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 DSM.

Property Data (Provisional)

Arnitel[®] ID 2060-HT

Print Date: 2019-09-11

| Properties | Typical Data | Unit | Test Method |
|-------------------------------------|--------------|-------------------|----------------|
| Other properties | | | |
| Humidity absorption | 0.1 | % | Sim. to ISO 62 |
| Density | 1270 | kg/m ³ | ISO 1183 |
| Material specific properties | | | |
| Shore D Hardness (3s) | 61 | - | ISO 868 |

Akulon®, Arnite®, Arnitel®, EcoPaXX®, ForTii®, Novamid®, Stanyl® and Xytron™ are trademarks of DSM.

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information, or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequences from the use of all such information.

Typical values are indicative only and are not to be construed as being binding specifications. This document replaces all previous versions relating to this subject.

Copyright © DSM 2018. 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 DSM.