

**Product Information**

Jan 2019

# **Ultramid® Advanced N3HG6** **- Preliminary - Polyamide PA9T**


**Product Description**

- Preliminary Product - Ultramid Advanced N3HG6 is a partially aromatic, 30% glassfiber reinforced polyphthalamide for injection molding with strong mechanical properties especially at elevated temperatures, good long-term thermal stability and outstanding chemical resistance for highly stressed parts. This material has high toughness, stiffness, extremely low water absorption and outstanding dimensional stability. It features high flowability and allows filling of complex parts with thin wall thickness. It is easily processable with excellent melt stability.

| PHYSICAL                            | ISO Test Method | Property Value |             |
|-------------------------------------|-----------------|----------------|-------------|
| Density, g/cm <sup>3</sup>          | 1183            | 1.37           |             |
| Mold Shrinkage, parallel, %         | 294-4           | 0.47           |             |
| Mold Shrinkage, normal, %           | 294-4           | 0.98           |             |
| Moisture, %                         | 62              |                |             |
| (Saturation)                        |                 | 2.0            |             |
| MECHANICAL                          | ISO Test Method | Dry            | Conditioned |
| Tensile Modulus, MPa                | 527             |                |             |
| 23C                                 |                 | 10,500         | -           |
| Tensile stress at break, MPa        | 527             |                |             |
| 23C                                 |                 | 190            | -           |
| Tensile strain at break, %          | 527             |                |             |
| 23C                                 |                 | 2.5            | -           |
| IMPACT                              | ISO Test Method | Dry            | Conditioned |
| Charpy Notched, kJ/m <sup>2</sup>   | 179             |                |             |
| -30C                                |                 | 9              | -           |
| 23C                                 |                 | 9              | -           |
| Charpy Unnotched, kJ/m <sup>2</sup> | 179             |                |             |
| -30C                                |                 | 60             | -           |
| 23C                                 |                 | 65             | -           |
| THERMAL                             | ISO Test Method | Dry            | Conditioned |
| Melting Point, C                    | 3146            | 300            | -           |
| HDT A, C                            | 75              | 270            | -           |

**Processing Guidelines**
**Material Handling**

Max. Water content: 0.05%

Product is supplied in sealed containers and drying prior to molding is not required. If drying becomes necessary, a dehumidifying or desiccant dryer operating at 120C (248F) for 8 hours is recommended. Drying time is dependent on moisture level, improperly stored material may require extended drying time. Further information concerning safe handling procedures can be obtained from the Safety Data Sheet. Alternatively, please contact your BASF representative.

**Typical Profile**

Melt Temperature 320-340C (608-644F)

Mold Temperature 100-160C (212-320F)

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General Information: 800-BC-RESIN  
Technical Assistance: 800-527-TECH (734-324-5150)  
Web address: <http://www.plasticsportal.com/usa>

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### Note

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