

Product Information

Jan 2019

Ultramid® Advanced T1000 HG7 BK23593

- Preliminary - Polyamide PA6T/6I

Product Description

- Preliminary Product - Ultramid Advanced T1000 HG7 BK23593 is a heat stabilized, partially aromatic, 35% glassfiber reinforced polyphthalamide for injection molding with strong mechanical properties especially at elevated temperatures and excellent chemical resistance for highly stressed parts. This material has high strength and stiffness, very low water absorption and outstanding dimensional stability. It features a high melting point (320C) and excellent melt stability.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm ³	1183	1.485	
Mold Shrinkage, parallel, %	294-4	0.4	
Mold Shrinkage, normal, %	294-4	0.93	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		14,000	14,000
80C		12,500	12,000
120C		10,000	-
Tensile stress at break, MPa	527		
23C		220	210
80C		180	145
120C		135	-
Tensile strain at break, %	527		
23C		2	1.9
80C		2	2.2
120C		2.9	-
IMPACT	ISO Test Method	Dry	Conditioned
Charpy Notched, kJ/m ²	179		
-30C		8	-
23C		8	-
Charpy Unnotched, kJ/m ²	179		
-30C		70	-
23C		70	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	320	-
HDT A, C	75	280	-

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

BASF Corporation
Engineering Plastics
1609 Biddle Avenue
Wyandotte, MI 48192

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

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Melt Temperature 345-360C (653-680F)
Mold Temperature 150-170C (302-338F)

Note

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