



Ultramid® Advanced T1000 HG7 BK23593

BASF Corporation - Polyamide 6I/6T Copolymer

Monday, November 4, 2019

General Information

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.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Aromatic	• Heat Stabilized	• High Stiffness
	• Chemical Resistant	• High Dimensional Stability	• High Strength
	• Copolymer	• High Melt Stability	• Low to No Water Absorption
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.93	--	%	
Flow	0.40	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
73°F	2.03E+6	2.03E+6	psi	
176°F	1.81E+6	1.74E+6	psi	
248°F	1.45E+6	--	psi	
Tensile Stress				ISO 527-2
Break, 73°F	31900	30500	psi	
Break, 176°F	26100	21000	psi	
Break, 248°F	19600	--	psi	
Tensile Strain				ISO 527-2
Break, 73°F	2.0	1.9	%	
Break, 176°F	2.0	2.2	%	
Break, 248°F	2.9	--	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F	3.8	--	ft·lb/in ²	
73°F	3.8	--	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179
-22°F	33	--	ft·lb/in ²	
73°F	33	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	536	--	°F	

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Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature (DSC)	608	--	°F	ISO 3146

Processing Information

Injection	Dry	Unit
Drying Temperature - Desiccant Dryer	248	°F
Drying Time	8.0	hr
Suggested Max Moisture	0.050	%
Processing (Melt) Temp	653 to 680	°F
Mold Temperature	302 to 338	°F

Notes

¹ Typical properties: these are not to be construed as specifications.