



Trilliant™ HC HC6010-8001 WT

Polyamide 6

Key Characteristics

Product Description	
Glass fiber reinforced PA6 compound with PTFE lubricated, health care application	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Additive	• PTFE Lubricant
Features	• Lubricated
Uses	• Medical/Healthcare Applications
Appearance	• White
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.63	1.63	ASTM D792
Molding Shrinkage	0.10 to 0.50 %	0.10 to 0.50 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	28300 psi	195 MPa	ASTM D638
Flexural Modulus ³	1.89E+6 psi	13000 MPa	ASTM D790
Flexural Strength ³	43500 psi	300 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact (Injection Molded)	3.4 ft·lb/in	180 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	419 °F	215 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	> 1.0E+12 ohms	> 1.0E+12 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	149 to 185 °F	65 to 85 °C

Injection Notes	
Injection Pressure: MED-HIGH	
Hold Pressure: MED-HIGH	
Screw Speed: MODERATE	
Back Pressure: LOW	

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)