

Gravi-Tech™ GT6000-0023 Black

Polyamide 6

PolyOne Corporation

Message:

Gravi-Tech™ GT6000-0023 Black is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Gravi-Tech™ GT6000-0023 Black include appliances, automotive, consumer goods, engineering/industrial parts and handles. Primary characteristic: non-toxic.

General Information			
Features	High Specific Gravity		
	Non-Toxic		
Uses	Appliance Components		
	Automotive Applications		
	Consumer Applications		
	Handles		
	Industrial Applications		
	Knobs		
	Medical/Healthcare Applications		
	Metal Replacement		
	Sporting Goods		
	Weighting & Balancing		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.34	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.0 to 1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	5070	MPa	ASTM D638
Tensile Strength ² (Yield)	64.1	MPa	ASTM D638
Tensile Elongation ³ (Break)	3.0	%	ASTM D638
Flexural Modulus ⁴	4550	MPa	ASTM D790
Flexural Strength ⁵	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	53	J/m	ASTM D256A

Unnotched Izod Impact (23°C, 3.18 mm, Injection Molded)	370	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	194	°C	
1.8 MPa, Unannealed	100	°C	
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	271 to 293	°C	
Mold Temperature	82.2 to 135	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		

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