

# Edgetek™ ET6000-5008 NHFR BLACK

## VN-3901

Polyamide 6

PolyOne Corporation

### Message:

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup> (23°C)	1.19	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	3400	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C, 4.00 mm)	70.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C, 4.00 mm, Injection Molded)	3.0	%	ISO 527-2/5
Flexural Modulus	3200	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	> 3.0	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C, Injection Molded)	42	kJ/m <sup>2</sup>	ISO 179
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	V-0		UL 94
Glow Wire Flammability Index (3.20 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	250 to 280	°C	
NOTE			
1.	±0.03		

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Recommended distributors for this material

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