

# Edgetek™ ET6000-5019 HI BLACK Polyamide 6

# **Key Characteristics**

#### Product Description

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and customer-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, flame-retardant products as well as customer-specific compounds. These compounds are based on selected engineering thermoplastic resins containing reinforcing fillers and/or special additives.

General	
Material Status	Commercial: Active
Regional Availability	Europe
Uses	<ul><li>Automotive Applications</li><li>Consumer Applications</li><li>Industrial Applications</li></ul>
Appearance	Black
Forms	Pellets
Processing Method	Injection Molding

## Technical Properties 1

Typical Value (English)	Typical Value (SI)	Test Method
1.06 g/cm <sup>3</sup>	1.06 g/cm <sup>3</sup>	ISO 1183
Typical Value (English)	Typical Value (SI)	Test Method
247000 psi	1700 MPa	ISO 527-2
6240 psi	43.0 MPa	ISO 527-2
> 25 %	> 25 %	ISO 527-2
232000 psi	1600 MPa	ISO 178
9430 psi	65.0 MPa	ISO 178
Typical Value (English)	Typical Value (SI)	Test Method
33 ft·lb/in²	70 kJ/m²	ISO 179
> 48 ft·lb/in²	> 100 kJ/m²	ISO 179
	1.06 g/cm³  Typical Value (English) 247000 psi 6240 psi > 25 % 232000 psi 9430 psi  Typical Value (English) 33 ft·lb/in²	1.06 g/cm³       1.06 g/cm³         Typical Value (English)       Typical Value (SI)         247000 psi       1700 MPa         6240 psi       43.0 MPa         > 25 %       > 25 %         232000 psi       1600 MPa         9430 psi       65.0 MPa         Typical Value (English)       Typical Value (SI)         33 ft·lb/in²       70 kJ/m²

### **Processing Information**

	<b>G</b>		
Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	140 to 176 °F	60.0 to 80.0 °C	
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr	
Processing (Melt) Temp	464 to 500 °F	240 to 260 °C	

#### **Notes**

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Rev: 2015-06-08 Page: 1 of 2

<sup>&</sup>lt;sup>1</sup> Typical values are not to be construed as specifications.

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Rev: 2015-06-08 Page: 2 of 2