



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	• Automotive Applications • Household Goods • Consumer Applications • Industrial Applications
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.06 g/cm ³	1.06 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	247000 psi	1700 MPa	ISO 527-2
Tensile Stress (Break)	6240 psi	43.0 MPa	ISO 527-2
Tensile Strain (Break)	> 25 %	> 25 %	ISO 527-2
Flexural Modulus	232000 psi	1600 MPa	ISO 178
Flexural Stress	9430 psi	65.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	33 ft·lb/in ²	70 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	> 48 ft·lb/in ²	> 100 kJ/m ²	ISO 179

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	140 to 176 °F	60 to 80 °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

¹ Typical values are not to be construed as specifications.