



Edgetek™ ET6000-5021 X7 GREY

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	• Grey
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.10 g/cm ³	1.10 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	47100 psi	325 MPa	ISO 527-2
Tensile Stress (Break)	2760 psi	19.0 MPa	ISO 527-2
Tensile Strain (Break)	190 %	190 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	29 ft·lb/in ²	60 kJ/m ²	ISO 179
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Shore Hardness ³ (Shore D)	51	51	ISO 868

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² +/-0.02%

³ +/-2