Edgetek™ ET6000-5021 X8 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 • Consumer Applications	• Household Goods • Industrial Applications
Appearance	• Grey	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	1.12 g/cm³	1.12 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	34800 psi	240 MPa	ISO 527-2
Tensile Stress (Break)	1890 psi	13.0 MPa	ISO 527-2
Tensile Strain (Break)	90 %	90 %	ISO 527-2
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength	14 ft·lb/in²	30 kJ/m²	ISO 179
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness [3] (Shore D)	50	50	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