Edgetek™ ET6000-5021 LD H-UV Black 70

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• Good Heat Resistance • Good Stiffness	• Good Strength • Heat Stabilized	• Low Density • UV Stabilized
Uses	• Appliance Components • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.920 g/cm³	0.920 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	537000 psi	3700 MPa	ISO 527
Tensile Stress	7250 psi	50.0 MPa	ISO 527-2/5
Tensile Strain (Break)	1.5 %	1.5 %	ISO 527-2/5
Flexural Modulus	493000 psi	3400 MPa	ISO 178
Flexural Stress	10200 psi	70.0 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Unnotched Impact Strength	6.7 ft·lb/in²	14 kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	0.71 ft·lb/in²	1.5 kJ/m²	ISO 180/A
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	221 °F	105 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 hr	2.0 hr
Rear Temperature	455 to 473 °F	235 to 245 °C
Middle Temperature	464 to 482 °F	240 to 250 °C
Front Temperature	473 to 491 °F	245 to 255 °C
Nozzle Temperature	482 to 500 °F	250 to 260 °C
Mold Temperature	140 to 176 °F	60 to 80 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] 0.039 in/min (1.0 mm/min)