

Product Texts

THERMOTUF AX06401 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 20% glass fiber. Added features of this grade include: Improved Toughness.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7000	MPa	ISO 527
Stress at break	85	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus, 23°C	6600	MPa	ISO 178
Flexural strength	146	MPa	ISO 178
Izod impact strength, +23°C	39	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6800	MPa	ASTM D 638
Tensile Strength at Break	93	MPa	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	5650	MPa	ASTM D 790
Flexural Strength	141	MPa	ASTM D 790
Izod Impact notched, 1/8 in	90	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	450	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	102	°C	ISO 75-1/-2
Vicat softening temperature, A	117	°C	ISO 306
ASTM Data			
Coefficient of Thermal Expansion, MD	39	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	80.7	E-6/K	ASTM D 696
DTUL @ 264 psi	102	°C	ASTM D 648
Vicat Temperature	117	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	0.04	%	Sim. to ISO 62
Density	1250	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	250 - 270	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	205 - 215	°C	-
Zone 2	230 - 245	°C	-
Zone 3	265 - 275	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America

Applications

Building Construction, Electrical and Electronical