



# Edgetek™ XT XT-500-CU00

## Polycarbonate + PBT

### Key Characteristics

#### Product Description

EDGE TEK™ XT High Performance Polymers are polycarbonate and polyester alloys that combine strength, durability and chemical resistance. The Edgetek XT product family includes a complete line of general purpose, UV stable and low-temperature impact grades for use in a wide range of demanding applications and severe operating environments plus customized formulations to meet specialized requirements.

#### General

Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Additive	• UV Stabilizer
Forms	• Pellets

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18	ASTM D792
Molding Shrinkage - Flow	8.0E-3 to 0.010 in/in	0.80 to 1.0 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (Yield)	6750 psi	46.5 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	130 %	130 %	ASTM D638
Flexural Modulus	265000 psi	1830 MPa	ASTM D790
Flexural Strength	10300 psi	70.7 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
-40°F (-40°C), 0.125 in (3.18 mm), Injection Molded	10 ft·lb/in	530 J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	13 ft·lb/in	690 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	191 °F	88.3 °C	

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	230 °F	110 °C
Drying Time	2.0 hr	2.0 hr
Processing (Melt) Temp	500 to 530 °F	260 to 277 °C
Mold Temperature	150 to 190 °F	66 to 88 °C

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)