

PolyOne Edgetek® XT XT-500-CU00 Polycarbonate + PBT (PC+PBT)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-XT-XT-500-CU00-Polycarbonate-PBT-PCPBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.5 MPa	6740 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	130 %	130 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	70.7 MPa	10300 psi	ASTM D790
Flexural Modulus	1.83 GPa	265 ksi	ASTM D790
Izod Impact, Notched	5.30 J/cm	9.93 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	6.90 J/cm	12.9 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.3 °C	191 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 277 °C	500 - 531 °F	
Mold Temperature	65.6 - 87.8 °C	150 - 190 °F	
Drying Temperature	110 °C	230 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value	Comments	
Additive	UV Stabilizer		
Forms	Pellets		
Generic Material	PC+PBT		
Generic Name	Polycarbonate + PBT (PC+PBT)		
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		

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