

Edgetek™ XT XT-500-CU00

Polycarbonate + PBT

PolyOne Corporation

Message:

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 Information			
Additive	UV Stabilizer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80 to 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	46.5	MPa	ASTM D638
Tensile Elongation ² (Break)	130	%	ASTM D638
Flexural Modulus	1830	MPa	ASTM D790
Flexural Strength	70.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-40°C, 3.18 mm, Injection Molded	530	J/m	
23°C, 3.18 mm, Injection Molded	690	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	88.3	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	260 to 277	°C	
Mold Temperature	65.6 to 87.8	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

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