

**ColorFast® FRPCT2200**

Americhem - Polycarbonate + PBT

## General Information

**Product Description**

FRPCT2200 is an injection molding grade of polycarbonate and polybutylene terephthalate (PC+PBT) alloy with improved impact and chemical resistance. It consists of a Brominated FR system with a flame rating of V-0/1.5mm and 5VA/2.5mm.

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• Flame Retardant
Features	• Excellent Colorability • Flame Retardant
Uses	• Automotive Applications • Engineering Parts • Industrial Applications • Closures • Household Goods • Industrial Parts • Consumer Applications • Housings • Office Automation Equipment
Forms	• Pellets
Processing Method	• Injection Molding

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/3.8 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	7.0E-3 to 0.010	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	8500	psi	ASTM D638
Tensile Strength (Break)	8000	psi	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	80	%	ASTM D638
Flexural Modulus <sup>2</sup>	360000	psi	ASTM D790
Flexural Strength <sup>2</sup>	14000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	13	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.126 in)	180	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.10 in	5VA		

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	410 to 490	°F
Middle Temperature	420 to 500	°F
Front Temperature	440 to 525	°F
Nozzle Temperature	450 to 525	°F
Processing (Melt) Temp	450 to 525	°F
Mold Temperature	140 to 180	°F

