

**ColorFast® FRPBT3000**

Americhem - Polybutylene Terephthalate

## General Information

**Product Description**

super tough, flame retarded unreinforced

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Excellent Colorability	• Flame Retardant	
Uses	• Automotive Applications	• Consumer Applications	• Housings
	• Battery Cases	• Engineering Parts	• Industrial Applications
	• Connectors	• Household Goods	• Industrial Parts
UL File Number	• E178307		
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Molding Shrinkage - Flow (0.125 in)	8.0E-3 to 0.012	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	6900	psi	ASTM D638
Tensile Strength (Break)	5800	psi	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	70	%	ASTM D638
Flexural Modulus <sup>2</sup>	275000	psi	ASTM D790
Flexural Strength <sup>2</sup>	9800	psi	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	194	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Suggested Shot Size	40 to 60	%
Rear Temperature	450 to 500	°F
Middle Temperature	460 to 520	°F
Front Temperature	480 to 530	°F
Nozzle Temperature	480 to 540	°F
Processing (Melt) Temp	480 to 540	°F
Mold Temperature	120 to 170	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

