

**ColorFast® FRPPO100X**

Americhem - Polyphenylene Ether

## General Information

**Product Description**

PPE + PS blend. Unfilled, Non-brominated, non-chlorinated FR system

**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	• Consumer Applications	• Household Goods	• Industrial Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	8800	psi	ASTM D638
Tensile Strength <sup>2</sup> (Break)	6800	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	3.6	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	9.0	%	ASTM D638
Flexural Modulus <sup>2</sup>	335000	psi	ASTM D790
Flexural Strength	13000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	5.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.126 in)	203	°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	180	°F
Drying Time	3.0 to 4.0	hr
Suggested Shot Size	30 to 60	%
Rear Temperature	450 to 510	°F
Middle Temperature	450 to 530	°F
Front Temperature	470 to 555	°F
Nozzle Temperature	480 to 555	°F
Processing (Melt) Temp	470 to 555	°F
Mold Temperature	140 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 80	rpm

