

**InElec® FRPCA100AS**

Americhem - Polycarbonate + ABS

## General Information

**Product Description**

FRPCA100AS is a medium viscosity injection molding grade of polycarbonate and acrylonitrile butadiene styrene (PC+ABS) alloy with high impact resistance and good electrical properties. It is permanently antistatic and flame retardant with a flame rating of V-0/1.5mm.

**General**

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

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29		ASTM D792
Molding Shrinkage - Flow	6.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	230000	psi	ASTM D638
Tensile Strength	5100	psi	ASTM D638
Tensile Elongation (Yield)	6.0 to 7.0	%	ASTM D638
Flexural Modulus	240000	psi	ASTM D790
Flexural Strength	8000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	7.0 to 8.0	ft·lb/in	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+8 to 9.9E+9	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		Internal Method

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	470 to 500	°F
Mold Temperature	125 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

**Injection Notes**

Do not exceed a melt temperature of 520F.

