

ColorFast® SFT3000

Americhem - Polycarbonate

General Information
Product Description

Polycarbonate alloy for Aerospace applications. FAR 25.853(d) compliant; flame, smoke, toxicity, OSU 65/65. Available in natural and opaque colors.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.28		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	8000	psi	ASTM D638
Tensile Strength ² (Break)	7000	psi	ASTM D638
Tensile Elongation ² (Yield)	6.0	%	ASTM D638
Tensile Elongation ² (Break)	80	%	ASTM D638
Flexural Modulus ²	275000	psi	ASTM D790
Flexural Strength ²	10000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	10	ft-lb/in	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	48	hr
Suggested Shot Size	40 to 60	%
Rear Temperature	520 to 560	°F
Middle Temperature	530 to 570	°F
Front Temperature	540 to 590	°F
Nozzle Temperature	540 to 590	°F
Processing (Melt) Temp	540 to 590	°F
Mold Temperature	160 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	1.0E-3 to 3.0E-3	in

