

ColorFast® FRPC202IMGF10UV

Americhem - Polycarbonate

General Information
Product Description

10% Glass Fiber Reinforced Polycarbonate with superior impact performance UV stabilized, V-0 rated 1.5 mm

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Additive	• Flame Retardant	• Impact Modifier	
Features	• Excellent Colorability • Filled • Flame Retardant	• Good Dimensional Stability • High Impact Resistance • High Stiffness	• High Strength • Impact Modified • Low Temperature Toughness
Uses	• Automotive Applications • Closures • Consumer Applications	• Engineering Parts • Household Goods • Housings	• Industrial Applications • Industrial Parts • Office Automation Equipment
UL File Number	• E178307		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	9600	psi	ASTM D638
Tensile Strength (Break)	8000	psi	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Tensile Elongation ² (Break)	15	%	ASTM D638
Flexural Modulus ²	500000	psi	ASTM D790
Flexural Strength ²	15000	psi	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	288	°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	48	hr
Suggested Shot Size	40 to 60	%
Rear Temperature	550 to 590	°F
Middle Temperature	570 to 610	°F
Front Temperature	590 to 620	°F
Nozzle Temperature	580 to 620	°F
Processing (Melt) Temp	590 to 620	°F
Mold Temperature	180 to 240	°F
Back Pressure	50.0 to 100	psi



Screw Speed	40 to 70 rpm
Vent Depth	1.0E-3 to 3.0E-3 in

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

