ColorFast® FRPC201IR
Americhem - *Polycarbonate*

General Information

Product Description
Polycarbonate Siloxane copolymer resin

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant	• Impact Modifier	
Features	• Excellent Colorability • Flame Retardant	• High Impact Resistance • Low Temperature Impact Resistance	• 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	1.19		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	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 [2] (Yield)	8200	psi	ASTM D638
Tensile Elongation [2] (Break)	150	%	ASTM D638
Flexural Modulus [2]	306000	psi	ASTM D790
Flexural Strength [2]	12500	psi	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	12	ft·lb/in	ASTM D256

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ASTM D785

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	257	°F	ASTM D648

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94
FAA Flammability (60.0 mil)	< 15.0	sec	FAR 25.853(a)

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	480 to 540	°F
Middle Temperature	490 to 550	°F
Front Temperature	490 to 560	°F
Nozzle Temperature	500 to 570	°F
Processing (Melt) Temp	500 to 570	°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

Notes

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

[2] 2.0 in/min