

**Integra™ PC-65000 GA2 FRA UV BK-4000**

PolySource, LLC - Polycarbonate

**General Information**
**Product Description**

Polycarbonate, 10% Glass Reinforced, UV Stabilized, Flame Retardant, Black

**General**

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Additive	• Flame Retardant      • UV Stabilizer
Features	• Flame Retardant      • UV Stabilized
Appearance	• Black

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.26		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Outdoor Suitability	f1		UL 746C
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	480000	psi	ASTM D638
Tensile Strength (Yield)	9400	psi	ASTM D638
Flexural Modulus	490000	psi	ASTM D790
Flexural Strength (Yield)	14500	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (73°F, 0.125 in)	2.0	ft·lb/in	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	288	°F	ASTM D648
RTI Elec	257	°F	UL 746B
RTI Imp	239	°F	UL 746B
RTI Str	257	°F	UL 746B
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
0.06 in	V-0		
0.09 in	5VA		

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	250	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	520 to 550	°F
Middle Temperature	530 to 570	°F
Front Temperature	550 to 600	°F
Nozzle Temperature	550 to 610	°F
Mold Temperature	150 to 220	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 75	rpm

