

## Technical Data Sheet

**Polyfort CPP30GF14BK-BKBLK**

Polypropylene, Homopolymer

**Product Description**

*Polyfort CPP30GF14BK-BKBLK* is a Polypropylene Homopolymer Mineral, 31% filled material and is typically used in Injection Molding applications. Features include: Homopolymer.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Homopolymer
<b>Forms</b>	Pellets
<b>Appearance</b>	Black
<b>Filler/Reinforcement</b>	Mineral, 31%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	21	g/10 min	ASTM D1238
Density - Specific Gravity	1.16	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength, (23 °C)	26.9	MPa	ASTM D638
Flexural Modulus			
(23 °C, 1% Secant)	2280	MPa	ASTM D790
(23 °C, Tangent)	2630	MPa	ASTM D790
Tensile Elongation at Break, (23 °C)	25	%	ASTM D638
Flexural Strength, (23 °C)	45.5	MPa	ASTM D790
<b>Impact</b>			
Gardner Impact	2.82	J	ASTM D5420
Unnotched Izod Impact, (23 °C)	480	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	27	J/m	ASTM D256
<b>Hardness</b>			
Durometer Hardness, (Shore D)	73		ASTM D2240
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	62.8	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	110	°C	ASTM D648

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Nozzle Temperature	213 to 218	°C
Processing (Melt) Temp	220 to 260	°C
Front Temperature	210 to 213	°C
Middle Temperature	204 to 210	°C
Rear Temperature	202 to 204	°C
Back Pressure	0.345 to 0.689	MPa
Mold Temperature	30 to 60	°C