

Technical Data Sheet

**Polyfort PP5A0BK21BLK**



Polypropylene Copolymer

**Product Description**

PP5A0BK21 is a High-Impact Polypropylene

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	High Impact Resistance
<b>Forms</b>	Pellets
<b>Appearance</b>	Colors Available

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	8.0	g/10 min	ASTM D1238
Density - Specific Gravity	0.908	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Elongation at Yield	12	%	ASTM D638
Tensile Strength at Yield, (23 °C)	20.8	MPa	ASTM D638
Flexural Modulus	979	MPa	ASTM D790
<b>Impact</b>			
Gardner Impact	25.3	J	ASTM D5420
Notched Izod Impact, (23 °C, 3.18 mm)	640	J/m	ASTM D256

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	82 to 104	°C
Processing (Melt) Temp	193 to 232	°C
Front Temperature	177 to 232	°C
Middle Temperature	177 to 232	°C
Rear Temperature	177 to 232	°C
Injection Rate	Moderate	
Back Pressure	0.138 to 2.07	MPa
Mold Temperature	21 to 49	°C
Cushion	6.35 to 12.7	mm