

Technical Data Sheet

Polyfort PP5A0BK21BLK

Polypropylene Copolymer

Product Description

PP5A0BK21 is a High-Impact Polypropylene

Processing Method	Injection Molding
Attribute	High Impact Resistance
Forms	Pellets
Appearance	Colors Available

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	8.0	g/10 min	ASTM D1238
Density - Specific Gravity	0.908	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield	12	%	ASTM D638
Tensile Strength at Yield, (23 °C)	20.8	MPa	ASTM D638
Flexural Modulus	979	MPa	ASTM D790
Impact			
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