

Technical Data Sheet

Polyfort PP4B0BKBLK



Polypropylene Copolymer

Product Description

Polyfort PP4B0BKBLK is a Polypropylene Copolymer material and is typically used in Injection Molding applications. Features include: Copolymer, and High Impact Resistance.

Processing Method	Injection Molding
Attribute	Copolymer; High Impact Resistance
Forms	Pellets

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate	9.5	g/10 min	ASTM D1238
Density - Specific Gravity	0.908	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield, (23 °C, 3.18 mm)	12	%	ASTM D638
Tensile Strength at Yield, (23 °C)	23.4	MPa	ASTM D638
Flexural Modulus, (Tangent)	827	MPa	ASTM D790
Impact			
Gardner Impact	22.6	J	ASTM D5420
Notched Izod Impact, (23 °C, 3.18 mm)	160	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D)	65		ASTM D2240
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	48.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	71.1	°C	ASTM D648
UL Information			
Flame Rating, (1.6 mm)	HB		UL 94

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