

Technical Data Sheet

Polyfort CPP3D20BKBLK

Polypropylene, Homopolymer

Product Description

Polyfort CPP3D20BKBLK is a Polypropylene Homopolymer Calcium Carbonate, 20% filled material and is typically used in Injection Molding applications. Features include: Homopolymer, and Medium Impact Resistance.

Processing Method	Injection Molding
Attribute	Homopolymer; Medium Impact Resistance
Forms	Pellets
Filler/Reinforcement	Calcium Carbonate, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	35	g/10 min	ASTM D1238
Density - Specific Gravity	1.05	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield, (23 °C, 3.18 mm)	20.7	MPa	ASTM D638
Flexural Modulus, (23 °C, 3.18 mm, Tangent)	1310	MPa	ASTM D790
Impact			
Gardner Impact, (23 °C, 3.18 mm)	16.9	J	ASTM D5420
Notched Izod Impact, (23 °C, 3.18 mm)	91	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D, 3.18 mm)	66		ASTM D2240
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	43.3	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (3.18 mm)	71.1	°C	ASTM D648

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	82 to 104	°C
Processing (Melt) Temp	199 to 232	°C
Front Temperature	188 to 232	°C
Middle Temperature	188 to 232	°C
Rear Temperature	188 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