

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.

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

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	21	g/10 min	ASTM D1238
Density - Specific Gravity	1.16	g/cm ³	ASTM D792
Mechanical			
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
Impact			
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
Hardness			
Durometer Hardness, (Shore D)	73		ASTM D2240
Thermal			
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