

Technical Data Sheet

Polyfort LPP20BK26BK-BKBLK

Polypropylene, Unspecified (PP, Unspecified)

Product Description

Polyfort LPP20BK26BK-BKBLK is a Polypropylene, Unspecified Calcium Carbonate, 20% filled material and is typically used in Injection Molding applications. Features include: Good Colorability, Good Impact Resistance, and UV Resistant.

Processing Method	Injection Molding
Attribute	Good Colorability; Good Impact Resistance; UV Resistant
Forms	Pellets
Application	Outdoor Furnishings; Protective Coverings; Toys
Filler/Reinforcement	Calcium Carbonate, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	10	g/10 min	ASTM D1238
Density - Specific Gravity	1.05	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	20.7	MPa	ASTM D638
Flexural Strength at Yield	30.3	MPa	ASTM D790
Flexural Modulus	1380	MPa	ASTM D790
Tensile Elongation at Break	340	%	ASTM D638
Impact			
Gardner Impact, (3.18 mm)	20.3	J	ASTM D3029
Unnotched Izod Impact, (23 °C)	No Break		ASTM D4812
Notched Izod Impact, (23 °C)	73	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D)	62		ASTM D2240
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	48.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	82.2	°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