

Technical Data Sheet

Polyfort CPP5A40HBBKBLK



Polypropylene, Homopolymer

Product Description

Polyfort CPP5A40HBBKBLK is a Polypropylene Homopolymer Calcium Carbonate, 40% filled material and is typically used in Injection Molding applications. Features include: Homopolymer, and Ultra High Impact Resistance.

Regulatory Status

For regulatory compliance information, see CPP5A40HBBKBLK [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	North America
Processing Method	Injection Molding
Attribute	Homopolymer; Ultra High Impact Resistance
Forms	Pellets
Filler/Reinforcement	Calcium Carbonate, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate	3.5	g/10 min	ASTM D1238
Density - Specific Gravity	1.24	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield, (23 °C, 3.18 mm)	15.9	MPa	ASTM D638
Flexural Modulus, (23 °C, 3.18 mm, Tangent)	1450	MPa	ASTM D790
Impact			
Gardner Impact, (23 °C, 3.18 mm)	24.9	J	ASTM D5420
Notched Izod Impact, (23 °C, 3.18 mm)	210	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D, 3.18 mm)	60		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)	68.3	°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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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