

Technical Data Sheet

Polyfort RPP20DA04BK-BKBLK



Polypropylene, Unspecified (PP, Unspecified)

Product Description

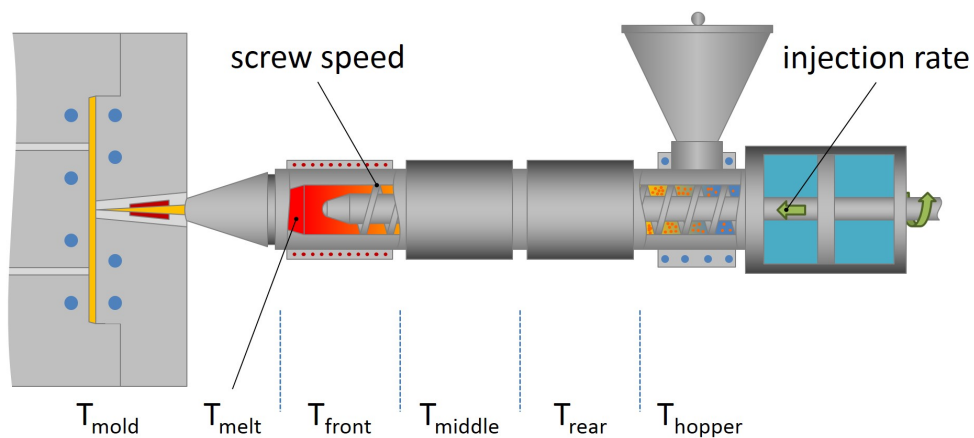
Polyfort RPP20DA04BK-BKBLK is a Polypropylene, Unspecified Glass Fiber, 20% filled material and is typically used in Injection Molding applications. Features include: Creep Resistant, Homopolymer, and Low Shrinkage.

Regulatory Status

For regulatory compliance information, see RPP20DA04BK-BKBLK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Latin America; North America
Processing Method	Injection Molding
Attribute	Good Creep Resistance; Homopolymer; Low Shrinkage
Forms	Pellets
Application	Automotive Applications
Filler/Reinforcement	Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	5.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.04	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	40	MPa	ASTM D638
Flexural Strength at Yield	59.3	MPa	ASTM D790
Flexural Modulus	3650	MPa	ASTM D790
Tensile Elongation at Break	2.5	%	ASTM D638
Impact			
Gardner Impact, (3.18 mm)	0.226	J	ASTM D3029
Unnotched Izod Impact, (23 °C)	190	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	32	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D)	72		ASTM D2240
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	116	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	146	°C	ASTM D648



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	71 to 82	°C
Nozzle Temperature	232 to 260	°C
Processing (Melt) Temp	221 to 238	°C
Front Temperature	232 to 260	°C
Middle Temperature	227 to 243	°C
Rear Temperature	221 to 238	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.138 to 0.345	MPa
Mold Temperature	38 to 66	°C
Cushion	5.08 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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