

Technical Data Sheet

Polyfort RPP30EA18BK-BK GAPEXBLK



Polypropylene, Homopolymer

Product Description

Primary use is for battery tray supports.

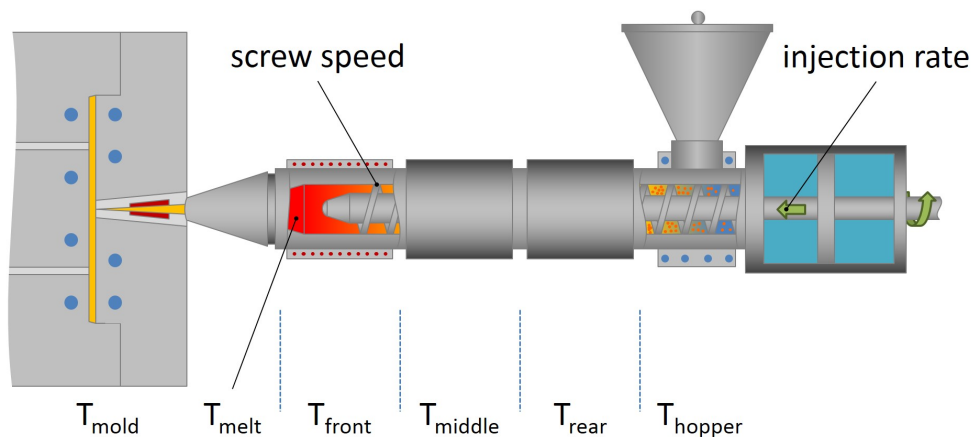
Regulatory Status

For regulatory compliance information, see RPP30EA18BK-BK GAPEXBLK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Latin America; North America
Processing Method	Injection Molding
Attribute	Chemically Coupled; Heat Stabilized
Forms	Pellets
Appearance	Black
Additive	Heat Stabilizer
Application	Support Trays
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(230 °C/2.16 kg)	3.8	g/10 min	ISO 1133
(230 °C/2.16 kg)	4.0	g/10 min	ASTM D1238
Density	1.14	g/cm ³	ISO 1183
Density - Specific Gravity	1.13	g/cm ³	ASTM D792
Mechanical			
Flexural Modulus	4750	MPa	ASTM D790
Tensile Elongation at Break	4	%	ASTM D638
Tensile Stress at Break	72.4	MPa	ISO 527-2
Impact			
Notched Izod Impact Strength			
(23 °C)	6.8	kJ/m ²	ISO 180
(-40 °C)	4.8	kJ/m ²	ISO 180
Gardner Impact	0.565	J	ASTM D3029
Unnotched Izod Impact, (23 °C)	530	J/m	ASTM D4812
Notched Izod Impact			
(23 °C)	65	J/m	ASTM D256
(-40 °C)	48	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D)	95		ASTM D2240
Thermal			

Deflection Temperature Under Load Unannealed (0.45 MPa)	152 °C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	139 °C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	149 °C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	163 °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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